YORK®
Heating and Air Conditioning

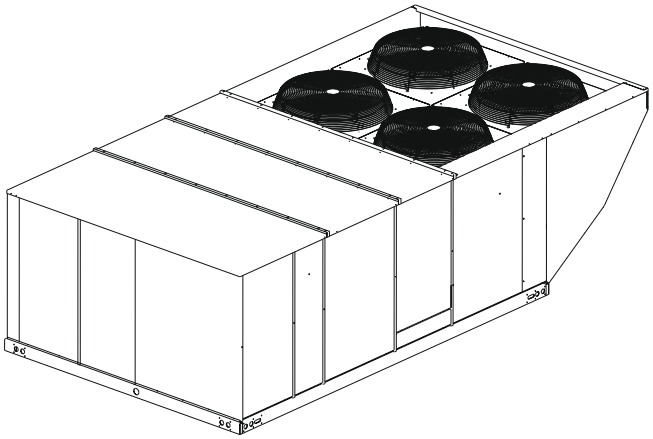
TECHNICAL GUIDE

SINGLE PACKAGE GAS/ELECTRIC UNITS AND SINGLE PACKAGE AIR CONDITIONERS

DJ 180, 210, 240 & 300

15 & 25 NOMINAL TONS

11.80 EER (15 TONS), 11.70 EER (17.5 TONS),
11.3 EER (20 TONS), 10.5 EER (25 TONS)



DESCRIPTION

YORK Sunline Magnum™ units are convertible single package high efficiency rooftops. All models have independent dual refrigerant circuits for efficient part load operation. Although the units are primarily designed for curb mounting on a roof, they can also be slab-mounted at ground level or set on steel beams above a finished roof.

All units include:

- Powder Paint finish that meets ASTM-B-117 750 hour salt spray standards
- Two-stage cooling provided by dual independent refrigeration circuits with expansion valves, filter-driers, high and low pressure/loss of charge switches and freezestats
- Scroll compressors
- Two-stage heating provided by dual independent heat exchangers with aluminized steel tubes, redundant gas valves, spark ignition with induced draft logic
- Permanently lubricated motors
- Bottom or side air discharge configuration capability (field convertible)
- Belt Drive Blower Motor with high static drive option
- Manufactured under the quality standards of ISO9001
- Simplicity™ Control Board
- Zero-25% fixed air damper with hood
- Copper tube/aluminum fin coils
- Hinged filter access and tooless latched doors
- Rigging holes in base rails for lifting
- Single point power connection
- Complete factory package - tested, charged and wired
- CSA agency approvals on all units

WARRANTY

- One-year parts warranty
- A Five-year parts warranty on the compressors and electric heat elements
- Ten-year parts warranty on the gas-fired heat exchangers

C SA® US

CERTIFIED

DESIGN CERTIFIED

MANUFACTURER CERTIFIED TO ARI AS COMPLYING WITH ARI STANDARD 360

FOR DISTRIBUTION USE ONLY - NOT TO BE USED AT POINT OF RETAIL SALE

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PRODUCT NOMENCLATURE

15-25T Sunline Magnum™ Model Number Nomenclature

York Brand

D	J	240	N 24	A	2	A	AA	1	A

Product Category
D = Air Cond., Single Package

Product Identifier
J = R-22 Super High Efficiency (Magnum)

Nominal Cooling Capacity - MBH
180 = 15 Ton
210 = 17.5 Ton
240 = 20 Ton
300 = 25 Ton

Heat Type & Nominal Heat Capacity
C00 = Cooling Only. No field installed electric heat

Gas Heat Options
N24 = 240 MBH Output Aluminized Steel
N32 = 320 MBH Output Aluminized Steel, (15-25T Only)
S24 = 240 MBH Output Stainless Steel
S32 = 320 MBH Output Stainless Steel, (15-25T Only)

Electric Heat Options
E18 = 18 KW
E36 = 36 KW
E54 = 54 KW
E72 = 72 KW

Voltage
2 = 208/230-3-60
4 = 460-3-60
5 = 575-3-60

Installation Options
A = No Options Installed
B = Option 1
C = Option 2
D = Options 1 & 2
E = Option 3
F = Options 4
G = Options 1 & 3
H = Options 1 & 4
J = Options 1, 2 & 3
K = Options 1, 2, & 4
L = Options 1,3 & 4
M = Options 1, 2, 3, & 4
N = Options 2 & 3
P = Options 2 & 4
Q = Options 2, 3, & 4
R = Options 3 & 4
S = Option 5
T = Options 1 & 5
U = Options 1, 3, & 5
V = Options 1, 4, & 5
W = Options 1, 3, 4, & 5
X = Options 3 & 5
Y = Options 4 & 5
Z = Options 3, 4, & 5

Options
1 = Disconnect
2 = Non-Pwr'd Conv Oultet
3 = Smoke Detector S.A.
4 = Smoke Detector R.A.
5 = Pwr'd Conv. Outlet

Additional Options
(See Next Page)

Airflow
A= Std Motor/Drive
B = Std Mtr/Drive/Single Input Econo
C = Std Mtr/Drive/Single Input Econo/Power Exhaust*
D = Std Mtr/Drive/Motorized Damper
F = Std Mtr/Drive/4" Filters
G = Std Mtr/Drive/4" Filters/Single Input Econ
H = Std Mtr/Drive/4" Filters/Single Input Econ/Power Exhaust*
L = Std Mtr/Drive/BAS Ready Econ (No BAS Controller) w/2" Pleated Filters
M = Std Mtr/Drive/BAS Ready Econ (No BAS Controller)/Power Exhaust w/2" Pleated Filters*
N = Hi Static Drive
P = Hi Static Drive/Single Input Econo
Q = Hi Static Drive/Single Input Econo/Power Exhaust*
R = Hi Static Drive/Motorized Damper
T = Hi Static Drive/4" Filters
U = Hi Static Drive/4" Filters/Single Input Econ
V = Hi Static Drive/4" Filters/Single Input Econ/Power Exhaust*
Y = Hi Static Drive/BAS Ready Econ (No BAS Controller) w/2" Pleated Filters
Z = Hi Static Drive/BAS Ready Econ (No BAS Controller)/Power Exhaust w/2" Pleated Filters*

*1RD0406 Power Exhaust Hood Kit is shipped with unit (separate package) on airflow options C, H, M, Q, V, & Z.

PRODUCT NOMENCLATURE - Continued

15-25T Sunline Magnum™ Model Number Nomenclature

Additional Options	
AA	None
AB	Phase Monitor
AC	Coil Guard
AD	Dirty Filter Switch
AE	Phase Monitor & Coil Guard
AF	Phase Monitor & Dirty Filter Switch
AG	Coil Guard & Dirty Filter Switch
AH	Phase Monitor, Coil Guard, & Dirty Filter Switch
BA	Hinged Filter Door & Tooless Access Panels
BB	Phase Monitor, Hinged Filter Door & Tooless Access Panels
BC	Coil Guard, Hinged Filter Door & Tooless Access Panels
BD	Dirty Filter Switch, Hinged Filter Door & Tooless Access Panels
BE	Phase Monitor & Coil Guard, Hinged Filter Door & Tooless Access Panels
BF	Phase Monitor & Dirty Filter Switch, Hinged Filter Door & Tooless Access Panels
BG	Coil Guard & Dirty Filter Switch, Hinged Filter Door & Tooless Access Panels
BH	Phase Monitor, Coil Guard, & Dirty Filter Switch, Hinged Filter Door & Tooless Access Panels
CA	CPC Controller with Dirty Filter Switch & Air Proving Switch
CB	CPC Controller, DFS, APS & Phase Monitor
CC	CPC Controller, DFS, APS & Coil Guard
CD	CPC Controller, DFS, APS, Phase Monitor, & Coil Guard
CE	CPC Controller, DFS, APS & Technicoat Cond. Coil
CF	CPC Controller, DFS, APS, Technicoat Cond. Coil, & Phase Monitor
CG	CPC Controller, DFS, APS, Technicoat Cond. Coil, & Coil Guard
CH	CPC Controller, DFS, APS, Technicoat Cond. Coil, Phase Monitor, & Coil Guard
CJ	CPC Controller, DFS, APS & Technicoat Evap. Coil
CK	CPC Controller, DFS, APS, Technicoat Evap. Coil, & Phase Monitor
CL	CPC Controller, DFS, APS, Technicoat Evap. Coil, & Coil Guard
CM	CPC Controller, DFS, APS, Technicoat Evap. Coil, Phase Monitor, & Coil Guard
CN	CPC Controller, DFS, APS & Technicoat Evap. & Cond Coils
CP	CPC Controller, DFS, APS, Technicoat Evap. & Cond Coils, & Phase Monitor
CQ	CPC Controller, DFS, APS, Technicoat Evap. & Cond Coils, & Coil Guard
CR	CPC Controller, DFS, APS, Technicoat Evap. & Cond Coils, Phase Monitor, & Coil Guard
DA	CPC Controller with Dirty Filter Switch & Air Proving Switch, Hinged Filter Door & Tooless Access Panels
DB	CPC Controller, DFS, APS & Phase Monitor, Hinged Filter Door & Tooless Access Panels
DC	CPC Controller, DFS, APS & Coil Guard, Hinged Filter Door & Tooless Access Panels
DD	CPC Controller, DFS, APS, Phase Monitor, & Coil Guard, Hinged Filter Door & Tooless Access Panels
DE	CPC Controller, DFS, APS & Technicoat Cond. Coil, Hinged Filter Door & Tooless Access Panels
DF	CPC Controller, DFS, APS, Technicoat Cond. Coil, & Phase Monitor, Hinged Filter Door & Tooless Access Panels
DG	CPC Controller, DFS, APS, Technicoat Cond. Coil, & Coil Guard, Hinged Filter Door & Tooless Access Panels
DH	CPC Controller, DFS, APS, Technicoat Cond. Coil, Phase Monitor, & Coil Guard, Hinged Filter Door & Tooless Access Panels
DJ	CPC Controller, DFS, APS & Technicoat Evap. Coil, Hinged Filter Door & Tooless Access Panels
DK	CPC Controller, DFS, APS, Technicoat Evap. Coil, & Phase Monitor, Hinged Filter Door & Tooless Access Panels
DL	CPC Controller, DFS, APS, Technicoat Evap. Coil, & Coil Guard, Hinged Filter Door & Tooless Access Panels
DM	CPC Controller, DFS, APS, Technicoat Evap. Coil, Phase Monitor, & Coil Guard, Hinged Filter Door & Tooless Access Panels
DN	CPC Controller, DFS, APS & Technicoat Evap. & Cond Coils, Hinged Filter Door & Tooless Access Panels
DP	CPC Controller, DFS, APS, Technicoat Evap. & Cond Coils, & Phase Monitor, Hinged Filter Door & Tooless Access Panels
DQ	CPC Controller, DFS, APS, Technicoat Evap. & Cond Coils, & Coil Guard, Hinged Filter Door & Tooless Access Panels
DR	CPC Controller, DFS, APS, Technicoat Evap. & Cond Coils, Phase Monitor, & Coil Guard, Hinged Filter Door & Tooless Access Panels
EA	Johnson UNT Controller with Dirty Filter Switch & Air Proving Switch, Hinged Filter Door & Tooless Access Panels

Additional Options	
EB	Johnson UNT Controller, DFS, APS & Phase Monitor, Hinged Filter Door & Tooless Access Panels
EC	Johnson UNT Controller, DFS, APS & Coil Guard, Hinged Filter Door & Tooless Access Panels
ED	Johnson UNT Controller, DFS, APS, Phase Monitor, & Coil Guard, Hinged Filter Door & Tooless Access Panels
EE	Johnson UNT Controller, DFS, APS & Technicoat Cond. Coil, Hinged Filter Door & Tooless Access Panels
EF	Johnson UNT Controller, DFS, APS, Technicoat Cond. Coil, & Phase Monitor, Hinged Filter Door & Tooless Access Panels
EG	Johnson UNT Controller, DFS, APS, Technicoat Cond. Coil, & Coil Guard, Hinged Filter Door & Tooless Access Panels
EH	Johnson UNT Controller, DFS, APS, Technicoat Cond. Coil, Phase Monitor, & Coil Guard, Hinged Filter Door & Tooless Access Panels
EJ	Johnson UNT Controller, DFS, APS & Technicoat Evap. Coil, Hinged Filter Door & Tooless Access Panels
EK	Johnson UNT Controller, DFS, APS, Technicoat Evap. Coil, & Phase Monitor, Hinged Filter Door & Tooless Access Panels
EL	Johnson UNT Controller, DFS, APS, Technicoat Evap. Coil, & Coil Guard, Hinged Filter Door & Tooless Access Panels
EM	Johnson UNT Controller, DFS, APS, Technicoat Evap. Coil, Phase Monitor, & Coil Guard, Hinged Filter Door & Tooless Access Panels
EN	Johnson UNT Controller, DFS, APS & Technicoat Evap. & Cond Coils, Hinged Filter Door & Tooless Access Panels
EP	Johnson UNT Controller, DFS, APS, Technicoat Evap. & Cond Coils, & Phase Monitor, Hinged Filter Door & Tooless Access Panels
EQ	Johnson UNT Controller, DFS, APS, Technicoat Evap. & Cond Coils, & Coil Guard, Hinged Filter Door & Tooless Access Panels
ER	Johnson UNT Controller, DFS, APS, Technicoat Evap. & Cond Coils, Phase Monitor, & Coil Guard, Hinged Filter Door & Tooless Access Panels
GA	Honeywell Excel 10 Controller with Dirty Filter Switch & Air Proving Switch, Hinged Filter Door & Tooless Access Panels
GB	Honeywell Excel 10 Controller, DFS, APS & Phase Monitor, Hinged Filter Door & Tooless Access Panels
GC	Honeywell Excel 10 Controller, DFS, APS & Coil Guard, Hinged Filter Door & Tooless Access Panels
GD	Honeywell Excel 10 Controller, DFS, APS, Phase Monitor, & Coil Guard, Hinged Filter Door & Tooless Access Panels
GE	Honeywell Excel 10 Controller, DFS, APS & Technicoat Cond. Coil, Hinged Filter Door & Tooless Access Panels
GF	Honeywell Excel 10 Controller, DFS, APS, Technicoat Cond. Coil, & Phase Monitor, Hinged Filter Door & Tooless Access Panels
GG	Honeywell Excel 10 Controller, DFS, APS, Technicoat Cond. Coil, & Coil Guard, Hinged Filter Door & Tooless Access Panels
GH	Honeywell Excel 10 Controller, DFS, APS, Technicoat Cond. Coil, Phase Monitor, & Coil Guard, Hinged Filter Door & Tooless Access Panels
GJ	Honeywell Excel 10 Controller, DFS, APS & Technicoat Evap. Coil, Hinged Filter Door & Tooless Access Panels
GK	Honeywell Excel 10 Controller, DFS, APS, Technicoat Evap. Coil, & Phase Monitor, Hinged Filter Door & Tooless Access Panels
GL	Honeywell Excel 10 Controller, DFS, APS, Technicoat Evap. Coil, & Coil Guard, Hinged Filter Door & Tooless Access Panels
GM	Honeywell Excel 10 Controller, DFS, APS, Technicoat Evap. Coil, Phase Monitor, & Coil Guard, Hinged Filter Door & Tooless Access Panels
GN	Honeywell Excel 10 Controller, DFS, APS & Technicoat Evap. & Cond Coils, Hinged Filter Door & Tooless Access Panels
GP	Honeywell Excel 10 Controller, DFS, APS, Technicoat Evap. & Cond Coils, & Phase Monitor, Hinged Filter Door & Tooless Access Panels
GQ	Honeywell Excel 10 Controller, DFS, APS, Technicoat Evap. & Cond Coils, & Coil Guard, Hinged Filter Door & Tooless Access Panels
GR	Honeywell Excel 10 Controller, DFS, APS, Technicoat Evap. & Cond Coils, Phase Monitor, & Coil Guard, Hinged Filter Door & Tooless Access Panels
HA	Honeywell Excel 10 Controller with Dirty Filter Switch & Air Proving Switch
HB	Honeywell Excel 10 Controller, DFS, APS & Phase Monitor
HC	Honeywell Excel 10 Controller, DFS, APS & Coil Guard
HD	Honeywell Excel 10 Controller, DFS, APS, Phase Monitor, & Coil Guard
HE	Honeywell Excel 10 Controller, DFS, APS & Technicoat Cond. Coil
HF	Honeywell Excel 10 Controller, DFS, APS, Technicoat Cond. Coil, & Phase Monitor
HG	Honeywell Excel 10 Controller, DFS, APS, Technicoat Cond. Coil, & Coil Guard
HH	Honeywell Excel 10 Controller, DFS, APS, Technicoat Cond. Coil, Phase Monitor, & Coil Guard
HJ	Honeywell Excel 10 Controller, DFS, APS & Technicoat Evap. Coil
HK	Honeywell Excel 10 Controller, DFS, APS, Technicoat Evap. Coil, & Phase Monitor
HL	Honeywell Excel 10 Controller, DFS, APS, Technicoat Evap. Coil, & Coil Guard
HM	Honeywell Excel 10 Controller, DFS, APS, Technicoat Evap. Coil, Phase Monitor, & Coil Guard
HN	Honeywell Excel 10 Controller, DFS, APS & Technicoat Evap. & Cond Coils
HP	Honeywell Excel 10 Controller, DFS, APS, Technicoat Evap. & Cond Coils, & Phase Monitor
HQ	Honeywell Excel 10 Controller, DFS, APS, Technicoat Evap. & Cond Coils, & Coil Guard
HR	Honeywell Excel 10 Controller, DFS, APS, Technicoat Evap. & Cond Coils, Phase Monitor, & Coil Guard
JA	Johnson UNT Controller with Dirty Filter Switch & Air Proving Switch

Additional Options	
JB	Johnson UNT Controller, DFS, APS & Phase Monitor
JC	Johnson UNT Controller, DFS, APS & Coil Guard
JD	Johnson UNT Controller, DFS, APS, Phase Monitor, & Coil Guard
JE	Johnson UNT Controller, DFS, APS & Technicoat Cond. Coil
JF	Johnson UNT Controller, DFS, APS, Technicoat Cond. Coil, & Phase Monitor
JG	Johnson UNT Controller, DFS, APS, Technicoat Cond. Coil, & Coil Guard
JH	Johnson UNT Controller, DFS, APS, Technicoat Cond. Coil, Phase Monitor, & Coil Guard
JJ	Johnson UNT Controller, DFS, APS & Technicoat Evap. Coil
JK	Johnson UNT Controller, DFS, APS, Technicoat Evap. Coil, & Phase Monitor
JL	Johnson UNT Controller, DFS, APS, Technicoat Evap. Coil, & Coil Guard
JM	Johnson UNT Controller, DFS, APS, Technicoat Evap. Coil, Phase Monitor, & Coil Guard
JN	Johnson UNT Controller, DFS, APS & Technicoat Evap. & Cond Coils
JP	Johnson UNT Controller, DFS, APS, Technicoat Evap. & Cond Coils, & Phase Monitor
JQ	Johnson UNT Controller, DFS, APS, Technicoat Evap. & Cond Coils, & Coil Guard
JR	Johnson UNT Controller, DFS, APS, Technicoat Evap. & Cond Coils, Phase Monitor, & Coil Guard
NA	Novar ETC-3 Controller with Dirty Filter Switch & Air Proving Switch
NB	Novar ETC-3 Controller, DFS, APS & Phase Monitor
NC	Novar ETC-3 Controller, DFS, APS & Coil Guard
ND	Novar ETC-3 Controller, DFS, APS, Phase Monitor, & Coil Guard
NE	Novar ETC-3 Controller, DFS, APS & Technicoat Cond. Coil
NF	Novar ETC-3 Controller, DFS, APS, Technicoat Cond. Coil, & Phase Monitor
NG	Novar ETC-3 Controller, DFS, APS, Technicoat Cond. Coil, & Coil Guard
NH	Novar ETC-3 Controller, DFS, APS, Technicoat Cond. Coil, Phase Monitor, & Coil Guard
NJ	Novar ETC-3 Controller, DFS, APS & Technicoat Evap. Coil
NK	Novar ETC-3 Controller, DFS, APS, Technicoat Evap. Coil, & Phase Monitor
NL	Novar ETC-3 Controller, DFS, APS, Technicoat Evap. Coil, & Coil Guard
NM	Novar ETC-3 Controller, DFS, APS, Technicoat Evap. Coil, Phase Monitor, & Coil Guard
NN	Novar ETC-3 Controller, DFS, APS & Technicoat Evap. & Cond Coils
NP	Novar ETC-3 Controller, DFS, APS, Technicoat Evap. & Cond Coils, & Phase Monitor
NQ	Novar ETC-3 Controller, DFS, APS, Technicoat Evap. & Cond Coils, & Coil Guard
NR	Novar ETC-3 Controller, DFS, APS, Technicoat Evap. & Cond Coils, Phase Monitor, & Coil Guard
PA	Novar ETC-3 Controller with Dirty Filter Switch & Air Proving Switch, Hinged Filter Door & Tooless Access Panels
PB	Novar ETC-3 Controller, DFS, APS & Phase Monitor, Hinged Filter Door & Tooless Access Panels
PC	Novar ETC-3 Controller, DFS, APS & Coil Guard, Hinged Filter Door & Tooless Access Panels
PD	Novar ETC-3 Controller, DFS, APS, Phase Monitor, & Coil Guard, Hinged Filter Door & Tooless Access Panels
PE	Novar ETC-3 Controller, DFS, APS & Technicoat Cond. Coil, Hinged Filter Door & Tooless Access Panels
PF	Novar ETC-3 Controller, DFS, APS, Technicoat Cond. Coil, & Phase Monitor, Hinged Filter Door & Tooless Access Panels
PG	Novar ETC-3 Controller, DFS, APS, Technicoat Cond. Coil, & Coil Guard, Hinged Filter Door & Tooless Access Panels
PH	Novar ETC-3 Controller, DFS, APS, Technicoat Cond. Coil, Phase Monitor, & Coil Guard, Hinged Filter Door & Tooless Access Panels
PJ	Novar ETC-3 Controller, DFS, APS & Technicoat Evap. Coil, Hinged Filter Door & Tooless Access Panels
PK	Novar ETC-3 Controller, DFS, APS, Technicoat Evap. Coil, & Phase Monitor, Hinged Filter Door & Tooless Access Panels
PL	Novar ETC-3 Controller, DFS, APS, Technicoat Evap. Coil, & Coil Guard, Hinged Filter Door & Tooless Access Panels
PM	Novar ETC-3 Controller, DFS, APS, Technicoat Evap. Coil, Phase Monitor, & Coil Guard, Hinged Filter Door & Tooless Access Panels
PN	Novar ETC-3 Controller, DFS, APS & Technicoat Evap. & Cond Coils, Hinged Filter Door & Tooless Access Panels
PP	Novar ETC-3 Controller, DFS, APS, Technicoat Evap. & Cond Coils, & Phase Monitor, Hinged Filter Door & Tooless Access Panels
PQ	Novar ETC-3 Controller, DFS, APS, Technicoat Evap. & Cond Coils, & Coil Guard, Hinged Filter Door & Tooless Access Panels
PR	Novar ETC-3 Controller, DFS, APS, Technicoat Evap. & Cond Coils, Phase Monitor, & Coil Guard, Hinged Filter Door & Tooless Access Panels
TA	Technicoat Condenser Coil
TB	Technicoat Condenser Coil & Phase Monitor
TC	Technicoat Condenser Coil & Coil Guard
TD	Technicoat Condenser Coil & Dirty Filter Switch

Additional Options	
TE	Technicoat Condenser Coil, Phase Monitor, & Coil Guard
TF	Technicoat Condenser Coil, Phase Monitor, & Dirty Filter Switch
TG	Technicoat Condenser Coil, Coil Guard, & Dirty Filter Switch
TH	Technicoat Condenser Coil, Phase Monitor, Coil Guard, & Dirty Filter Switch
TJ	Technicoat Evaporator Coil
TK	Technicoat Evaporator Coil & Phase Monitor
TL	Technicoat Evaporator Coil & Coil Guard
TM	Technicoat Evaporator Coil & Dirty Filter Switch
TN	Technicoat Evaporator Coil, Phase Monitor, & Coil Guard
TP	Technicoat Evaporator Coil, Phase Monitor, & Dirty Filter Switch
TQ	Technicoat Evaporator Coil, Coil Guard, & Dirty Filter Switch
TR	Technicoat Evaporator Coil, Phase Monitor, Coil Guard, & Dirty Filter Switch
TS	Technicoat Evaporator & Condenser Coils
TT	Technicoat Evaporator & Condenser Coils & Phase Monitor
TU	Technicoat Evaporator & Condenser Coils & Coil Guard
TV	Technicoat Evaporator & Condenser Coils & Dirty Filter Switch
TW	Technicoat Evaporator & Condenser Coils, Phase Monitor, & Coil Guard
TX	Technicoat Evaporator & Condenser Coils, Phase Monitor, & Dirty Filter Switch
TY	Technicoat Evaporator & Condenser Coils, Coil Guard, & Dirty Filter Switch
TZ	Technicoat Evaporator & Condenser Coils, Phase Monitor, Coil Guard, & Dirty Filter Switch
UA	Technicoat Condenser Coil, Hinged Filter Door & Tooless Access Panels
UB	Technicoat Condenser Coil & Phase Monitor, Hinged Filter Door & Tooless Access Panels
UC	Technicoat Condenser Coil & Coil Guard, Hinged Filter Door & Tooless Access Panels
UD	Technicoat Condenser Coil & Dirty Filter Switch, Hinged Filter Door & Tooless Access Panels
UE	Technicoat Condenser Coil, Phase Monitor, & Coil Guard, Hinged Filter Door & Tooless Access Panels
UF	Technicoat Condenser Coil, Phase Monitor, & Dirty Filter Switch, Hinged Filter Door & Tooless Access Panels
UG	Technicoat Condenser Coil, Coil Guard, & Dirty Filter Switch, Hinged Filter Door & Tooless Access Panels
UH	Technicoat Condenser Coil, Phase Monitor, Coil Guard, & Dirty Filter Switch, Hinged Filter Door & Tooless Access Panels
UJ	Technicoat Evaporator Coil, Hinged Filter Door & Tooless Access Panels
UK	Technicoat Evaporator Coil & Phase Monitor, Hinged Filter Door & Tooless Access Panels
UL	Technicoat Evaporator Coil & Coil Guard, Hinged Filter Door & Tooless Access Panels
UM	Technicoat Evaporator Coil & Dirty Filter Switch, Hinged Filter Door & Tooless Access Panels
UN	Technicoat Evaporator Coil, Phase Monitor, & Coil Guard, Hinged Filter Door & Tooless Access Panels
UP	Technicoat Evaporator Coil, Phase Monitor, & Dirty Filter Switch, Hinged Filter Door & Tooless Access Panels
UQ	Technicoat Evaporator Coil, Coil Guard, & Dirty Filter Switch, Hinged Filter Door & Tooless Access Panels
UR	Technicoat Evaporator Coil, Phase Monitor, Coil Guard, & Dirty Filter Switch, Hinged Filter Door & Tooless Access Panels
US	Technicoat Evaporator & Condenser Coils, Hinged Filter Door & Tooless Access Panels
UT	Technicoat Evaporator & Condenser Coils & Phase Monitor, Hinged Filter Door & Tooless Access Panels
UU	Technicoat Evaporator & Condenser Coils & Coil Guard, Hinged Filter Door & Tooless Access Panels
UV	Technicoat Evaporator & Condenser Coils & Dirty Filter Switch, Hinged Filter Door & Tooless Access Panels
UW	Technicoat Evaporator & Condenser Coils, Phase Monitor, & Coil Guard, Hinged Filter Door & Tooless Access Panels
UX	Technicoat Evaporator & Condenser Coils, Phase Monitor, & Dirty Filter Switch, Hinged Filter Door & Tooless Access Panels
UY	Technicoat Evaporator & Condenser Coils, Coil Guard, & Dirty Filter Switch, Hinged Filter Door & Tooless Access Panels
UZ	Technicoat Evaporator & Condenser Coils, Phase Monitor, Coil Guard, & Dirty Filter Switch, Hinged Filter Door & Tooless Access Panels

FEATURES

All models are available with a wide variety of factory-mounted options such as stainless steel heat exchangers, phase monitor, dirty filter switch, and coil guard to make them suitable for almost every application.

All units are self-contained and assembled on full perimeter base rails with holes in the four corners for overhead rigging. Every unit is completely piped, wired, charged and tested at the factory to simplify the field installation and to provide years of dependable operation.

All models (including those with an economizer) are suitable for either bottom or horizontal duct connections. **Models with factory installed power exhaust are suitable for bottom duct connections only**. For bottom duct, you remove the sheet metal panels from the supply and return air openings through the base of the unit. For horizontal duct, you replace the supply and return air panels on the rear of the unit with a side duct flange accessory.

All models are available with these “factory mounted” outdoor air damper options:

- Single enthalpy economizer
- Single enthalpy economizer with power exhaust
- Motorized outdoor air damper

A fixed outdoor air intake assembly will be shipped in the return air compartment of all units ordered without an economizer or motorized outdoor air damper option. The assembly includes a rain hood with a damper that can be set for 10, 15 or 25% outdoor air. With bottom duct connections, the intake damper assembly should be mounted over the opening in the return air panel. With horizontal ductwork, it should be mounted on the return air duct.

All supply air blowers are equipped with a belt drive that can be adjusted to meet the exact requirements of the job. A high static drive option is available for applications with a higher CFM and/or static pressure requirement.

All compressors include scroll compressors and internal pressure relief. Every refrigerant circuit includes an expansion valve, a liquid line filter-drier, a discharge line high pressure switch and a suction line with a freezestat and low pressure/loss of charge switch to protect all system components.

- **Simplicity™ Controls** - Simplicity™ control boards have standardized a number of features previously available only as options or by utilizing additional controls.
    - **Low Ambient** - An integrated low-ambient control allows all units to operate in the cooling mode down to 0ºF outdoor ambient without additional assistance. Optionally, the control board can be programmed to lockout the compressors when the outdoor air temperature is low or when free cooling is available.
    - **Anti-Short Cycle Protection** - To aid compressor life, an anti-short cycle delay is incorporated into the standard controls. Compressor reliability is further ensured by programmable minimum run times. For testing, the anti short cycle delay can be temporarily overridden with the push of a button.
    - **Fan Delays** - Fan on and fan off delays are fully programmable. Furthermore, the heating and cooling fan delay times are independent of one another. All units are programmed with default values based upon their configuration of cooling and heat.
    - **Safety Monitoring** - The control board monitors the high and low-pressure switches, the freezestats, the gas valve, if applicable, and the temperature limit switch on gas and electric heat units. The unit control board will alarm on ignition failures, compressor lockouts and repeated limit switch trips.
    - **Nuisance Trip Protection and Strikes** - To prevent nuisance trouble calls, the control board uses a “three times, you’re out” philosophy. The high and low-pressure switches and the freezestats must trip three times within two hours before the unit control board will lock out the associated compressor.
    - **On Board Diagnostics** - Each alarm will energize a trouble light on the thermostat, if so equipped, and flash an alarm code on the control board LED. Each high and low-pressure switch alarm as well as each freezestat alarm has its own flash code. The control board saves the five most recent alarms in memory, and these alarms can be reviewed at any time. Alarms and programmed values are retained through the loss of power.

All units have long lasting powder paint cabinets with 750 hour salt spray test approval under ASTM-B117 procedures.

All models are CSA approved.

- **Warranty -** All models include a one-year limited parts warranty on the complete unit. Compressors and electric heater elements carry a five-year warranty. Gas heat exchangers carry a 10-year parts warranty.
- **Gas Heat Operation** - All gas heat units are built with two heating sections for two equal stages of capacity control. Each section includes a durable heat exchanger with aluminized steel or optional stainless steel tubes, a redundant gas valve, spark ignition, power venting, an ignition module for 100% shut-off and all of the safety controls required to meet the latest ANSI standards.

  The gas supply piping can be routed into the heating compartment through a hole in the base pan of the unit or through a knockout in the piping panel on the front of the unit.

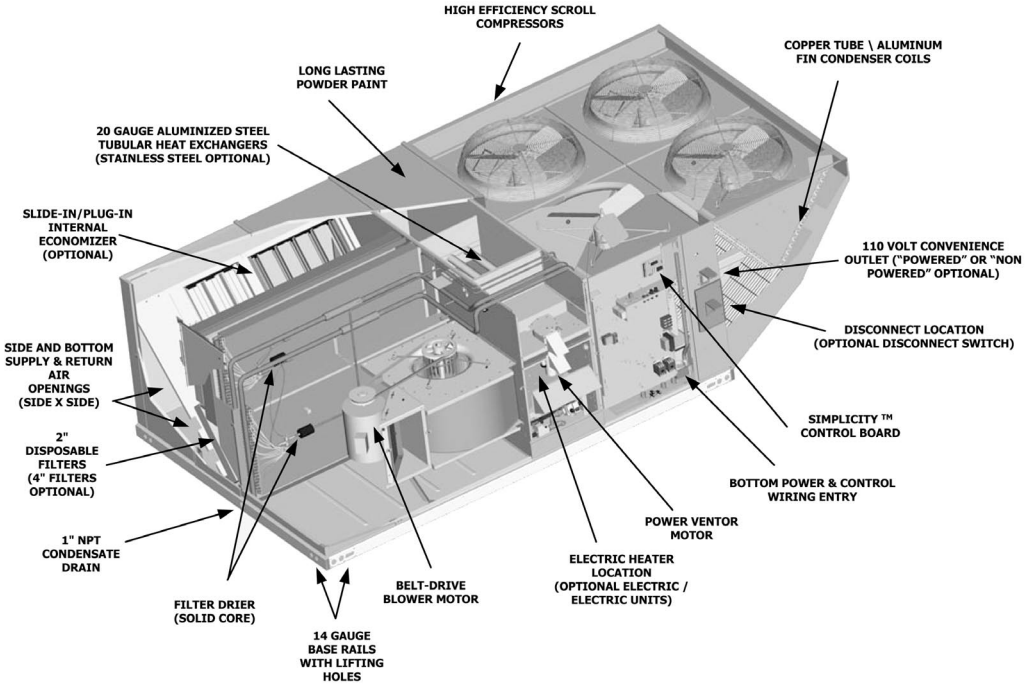

HIGH EFFICIENCY SCROLL COMPRESSORS
COPPER TUBE \ ALUMINUM FIN CONDENSER COILS
LONG LASTING POWDER PAINT
20 GAUGE ALUMINIZED STEEL TUBULAR HEAT EXCHANGERS (STAINLESS STEEL OPTIONAL)
SLIDE-IN/PLUG-IN INTERNAL ECONOMIZER (OPTIONAL)
110 VOLT CONVENIENCE OUTLET ("POWERED" OR "NON POWERED" OPTIONAL)
DISCONNECT LOCATION (OPTIONAL DISCONNECT SWITCH)
SIDE AND BOTTOM SUPPLY & RETURN AIR OPENINGS (SIDE X SIDE)
SIMPLICITY ™ CONTROL BOARD
2" DISPOSABLE FILTERS (4" FILTERS OPTIONAL)
BOTTOM POWER & CONTROL WIRING ENTRY
POWER VENTOR MOTOR
1" NPT CONDENSATE DRAIN
ELECTRIC HEATER LOCATION (OPTIONAL ELECTRIC / ELECTRIC UNITS)
BELT-DRIVE BLOWER MOTOR
FILTER DRIER (SOLID CORE)
14 GAUGE BASE RAILS WITH LIFTING HOLES

FIGURE 1: UNIT CUTAWAY

- **Electric Heat Operation** - All electric heat models (factory installed only) are wired for a single power source and include a bank of nickel chromium elements mounted at the discharge of the supply air blower to provide a high velocity and uniform distribution of air across the heating elements. Every element is fully protected against excessive current and temperature by fuses and two thermal limit switches.

  The power supply wiring can be routed into the control box through a threaded pipe connection in the base pan of the unit or through a knockout in the wiring panel on the front of the unit.

- **BAS Controls** - York's Magnum series units offer factory mounted BAS controls such as Novar, Honeywell, Johnson, and CPC.

FACTORY-INSTALLED OPTIONS

- **SINGLE INPUT ELECTRONIC ENTHALPY ECONOMIZERS** - Includes a slide-in / plug-in damper assembly with fully modulating spring-return motor actuator capable of introducing up to 100% outdoor air with nominal 1% leakage type dampers.

  The enthalpy system contains one sensor that monitors the outdoor air and determines when the air is cool enough and dry enough to provide free cooling.

  The rainhood is painted to match the basic unit and must be field-assembled before installing.

  Power exhaust is not available as a field installed option.

- **POWER EXHAUST** - Our single economizer options are available with power exhaust. Whenever the outdoor air intake dampers are opened for free cooling, the exhaust fan will be energized to prevent the conditioned space from being over-pressurized during economizer operation.

  The exhaust fan, motor and controls are installed and wired at the factory. The rain hood and the back-draft damper need to be assembled and installed in the field.

  The power exhaust option can only be used on bottom duct configurations.

- **MOTORIZED OUTDOOR AIR INTAKE DAMPER** - Includes a slide-in / plug-in damper assembly with a 2-position, spring return motor actuator which opens to a pre-set position whenever the supply air blower is operating and will drive fully closed when the blower unit shuts down.

  The rain hood is painted to match the basic unit and must be field assembled before installing.

- **PHENOLIC COATED EVAPORATOR AND CONDENSER COILS** - Special coating process that utilizes Technicoat 10-1" processes. Coating is applied by total immersion of the complete coil for maximum protection.

- **ELECTRIC HEATERS** wired for single point power supply. These nickel chromium heater elements are provided with limit and automatic reset capability to prevent operation at excessive temperatures.

- **FILTER OPTIONS** - Standard units are shipped with 2” throw-away filters installed. 2” pleated and 4” pleated filters are offered as a factory installed option.
- **CONVENIENCE OUTLET** - This 110 volt outlet can be “powered” by the unit with a stepdown transformer or you may order the unit with a “non-powered” convenience outlet that can be wired in the field.
- **DISCONNECT SWITCH** - For gas heat units and cooling units with electric heat, a HACR breaker sized to the unit is provided. For cooling only units, a switch sized to the largest electric heat available for the particular unit is provided. Factory installed option only.
- **BAS** - See “Additional Options” section in the product nomenclature.
- **SMOKE DETECTORS** - (supply air & return air) The smoke detectors stop operation of the unit by interrupting power to the control board if smoke is detected within the air compartment.
- **COIL GUARD** - Customers can purchase a coil guard kit to protect the condenser coil from damage. This is not a hail guard kit.
- **STAINLESS STEEL HEAT EXCHANGER** - For applications in corrosive environments, this option provides a full stainless steel heat exchanger assembly.
- **PHASE MONITORS** - Designed to prevent unit damage. The phase monitor will shut the unit down in an out-of-phase condition.
- **HIGH SPEED DRIVE** - Includes a belt and blower pulley upgrade to enhance blower performance.
- **DIRTY FILTER SWITCH** - This kit includes a differential pressure switch that energizes the fault light on the unit thermostat, indicating that there is an abnormally high pressure drop across the filters. Factory installed option or field installed accessory.
- **HINGED FILTER DOOR/”TOOLESS” BLOWER AND ACCESS PANELS (not hinged)** - This option allows for easy access and maintenance.

  NOTE: Knobs are shipped separately within the unit to prevent shipping damage. These must be field installed for tool-less operation.

FIELD-INSTALLED ACCESSORIES

- **SINGLE INPUT ELECTRONIC ENTHALPY ECONOMIZERS** - Includes a slide-in / plug-in damper assembly with fully modulating spring-return motor actuator capable of introducing up to 100% outdoor air with nominal 1% leakage type dampers.

  The enthalpy system contains one sensor that monitors the outdoor air and determines when the air is cool enough and dry enough to provide free cooling.

  The rainhood is painted to match the basic unit and must be field-assembled before installing.

  Power exhaust is not available as a field installed option.
- **MOTORIZED OUTDOOR AIR INTAKE DAMPER** - Includes a slide-in / plug-in damper assembly with a 2-position, spring return motor actuator which opens to some pre-set position whenever the supply air blower is operating and will drive fully closed when the blower unit shuts down.

  The rain hood is painted to match the basic unit and must be field assembled before installing.

  Power exhaust is not available as a field installed option.
- **ROOF CURBS** - Fourteen-inch high roof curbs provide a water-tight seal between the unit and the finished roof. These full perimeter curbs meet the requirements of the National Roofing Contractors Association (NRCA) and are shipped knocked-down for field assembly.

  They're designed to fit inside the base rails of the unit and include both a wood nailing strip and duct hanger supports.
- **HIGH ALTITUDE NATURAL GAS** - Burner orifices and pilot orifices are provided for proper furnace operation at altitudes up to 6,000 feet.
- **PROPANE** - Burner orifices, pilot orifices and gas valve parts are provided to convert a natural gas furnace to propane.
- **HIGH ALTITUDE PROPANE** - Burner orifices and pilot orifices are provided for proper furnace operation at altitudes up to 6,000 feet. This accessory supplements the basic propane conversion kit.
- **SIDE DUCT FLANGES** - One-inch flanges replace the supply and return air panels on the rear of the unit to accommodate horizontal duct connections. These flanges can also be used individually for bottom supply/horizontal return or horizontal supply/bottom return. They cannot be used on units with power exhaust.
- **BAROMETRIC RELIEF DAMPER** - This damper accessory can be used to relieve internal building air pressure on units with an economizer without power exhaust. This accessory includes a rain hood, a bird screen and a fully assembled damper. With bottom duct connections, the damper should be mounted over the opening in the return air panel. With horizontal ductwork, the accessory should be mounted on the return air duct.
- **HIGH SPEED DRIVE** - A smaller blower pulley and a shorter belt increase the speed of the supply air blower for applications with a higher CFM and/or static pressure requirements.

- **ENTHALPY ACCESSORY CONTROL KIT** - This kit contains the required components to convert a single enthalpy economizer to dual enthalpy.
- **BURGLAR BARS** - Mount in the supply and return openings to prevent entry into the duct work.
- **FLUE EXHAUST EXTENSION KIT** - In locations with wind or weather conditions which may interfere with proper exhausting of furnace combustion products, this kit can be installed to prevent the flue exhaust from entering nearby fresh air intakes.
- **WOOD SKID** - Allows unit to be handled with 90” forks.
- **CO_2 SENSOR** - Senses CO_2 levels and automatically overrides the economizer when levels rise above the present limits.
- **COIL GUARD** - Customers can purchase a coil guard kit to protect the condenser coil from damage. This is not a hail guard kit.
- **PHASE MONITORS** - Designed to prevent unit damage. The phase monitor will shut the unit down in an out-of-phase condition.

TABLE 1: SOUND POWER RATING[1]

UNIT SIZE	CFM	ESP	BLOWER		SOUND POWER (db 10^{-12} Watts)									
					Octave Band Centerline Frequency (Hz)								SWL dB(A)	dB(A) @ 10Ft.[2]
		IWG	RPM	BHP	63	125	250	500	1,000	2,000	4,000	8,000		
180	6,000	1.00	1,080	4.60	99	99	89	82	84	77	72	67	89	56
210/240	8,000	1.00	1,120	6.65	102	102	92	85	87	80	75	70	92	59
300	10,000	1.30	1160	12.5	108	108	98	91	93	86	81	76	98	65

1. These values have been accessed using a model of sound propagation from a point source into the hemispheric\free field. The dBA values provided are to be used for reference only. Calculation of dBA values cover matters of system design and the fan manufacture has no way of knowing the details of each system. This constitutes and expectation to any specification or guarantee requiring a dBA value or sound data in any other form than sound power level ratings.
2. At a distance of 10 feet from the blower.

TABLE 2: CAPACITY RATINGS - (ARI 360)[1]

MODEL	MBH	EER[2]	IPLV[3]
COOLING ONLY			
DJ180C/E00	178	11.8	13.0
DJ210C/E00	208	11.7	12.7
DJ240C/E00	230	11.3	12.0
DJ300C/E00	292	10.5	11.2
COOLING WITH GAS HEAT			
DJ180N/S	178	11.8	13.0
DJ210N/S	208	11.7	12.7
DJ240N/S	230	11.3	12.0
DJ300N/S	292	10.5	11.2
COOLING WITH ELECTRIC HEAT			
DJ180E18	178	11.8	13.0
DJ180E36	178	11.8	13.0
DJ180E54	176	11.6	12.7
DJ180E72	176	11.6	12.7
DJ210E18	208	11.7	12.7
DJ210E36	208	11.7	12.7
DJ210E54	206	11.5	12.4
DJ210E72	206	11.5	12.4
DJ240E18	230	11.3	12.0
DJ240E36	230	11.3	12.0
DJ240E54	228	11.1	11.7
DJ240E72	228	11.1	11.7
DJ300E18	292	10.5	11.2
DJ300E36	292	10.5	11.2
DJ300E54	290	10.3	11.0
DJ300E72	290	10.3	11.0

1. Certified in accordance with the Unitary Large Equipment certification program which is based on ARI Standard 340/360.
2. EER = Energy Efficiency Ratio at full load - the cooling capacity in Btu's per hour (Btuh) divided by the power input in watts, expressed in Btuh per watt (Btuh/watt).
3. IPLV = Integrated Part Load Value.

TABLE 3: GAS HEAT RATIINGS

MODEL	MBH INPUT	MBH OUTPUT
DJ180N/S24	300	240
DJ180N/S32	400	320
DJ210N/S24	300	240
DJ210N/S32	400	320
DJ240N/S24	300	240
DJ240N/S32	400	320
DJ300N/S24	300	240
DJ300N/S32	400	320

NOTE: All gas units are two-stage heating.
First stage is 50% of total.
S.S.E. = Steady State Efficiency (80%) - output divided by input.

TABLE 4: COOLING CAPACITIES FOR DJ180 AT 85°F

RETURN AIR		OUTDOOR AMBIENT TEMPERATURE (°F): 85								
CFM	WB TEMP °F	GROSS CAPACITY[1] (MBH)	INPUT POWER[2] (kW)	GROSS SENSIBLE CAPACITY[1] (MBH) (RETURN AIR DRY BULB TEMP. - (°F))						
				86	83	80	77	74	71	68
4500	72	210.2	12.36	121.0	108.2	95.3	82.5	69.7	#N/A	#N/A
	67	193.0	11.97	151.5	138.6	125.8	113.0	100.2	87.3	74.5
	62	177.6	11.68	177.6	167.6	154.8	141.0	129.1	116.3	103.5
	57	182.7	11.62	182.1	169.2	156.4	143.6	130.7	117.9	105.1
5250	72	216.7	12.47	133.6	118.4	103.3	88.1	72.9	#N/A	#N/A
	67	198.9	12.08	166.6	151.4	136.3	121.1	105.9	90.8	75.6
	62	183.1	11.78	183.1	178.1	167.6	152.5	137.3	122.1	107.0
	57	188.4	11.72	188.0	181.6	169.4	154.2	139.0	123.9	108.7
6000	72	223.2	12.58	146.2	128.7	111.2	93.7	76.2	#N/A	#N/A
	67	204.9	12.19	181.7	164.2	146.7	129.2	111.7	94.2	76.7
	62	188.6	11.89	188.6	188.6	180.5	163.0	145.5	128.0	110.5
	57	194.0	11.83	194.0	194.0	182.4	164.9	147.4	129.9	112.4
6750	72	229.7	12.61	157.8	137.9	118.0	98.1	78.1	#N/A	#N/A
	67	210.8	12.21	195.6	175.6	155.7	135.8	115.9	95.9	76.0
	62	194.0	11.91	194.0	194.0	190.0	170.1	150.1	130.2	110.3
	57	199.6	11.86	199.6	199.6	193.6	173.6	153.7	133.8	113.9
7500	72	236.1	12.64	169.5	147.2	124.8	102.5	80.1	#N/A	#N/A
	67	216.7	12.24	209.4	187.1	164.7	142.4	120.0	97.7	75.3
	62	199.5	11.94	199.5	199.5	199.5	177.1	154.8	132.4	100.1
	57	205.2	11.88	205.2	205.2	204.8	182.4	160.1	137.7	115.3

1. The capacities are gross ratings. For net capacity, deduct the supply air blower motor heat, MBH = 3.415 x kW. Refer to the appropriate blower performance table for the kW of the supply air blower motor.
2. These ratings include condenser fan motor and compressor motor power but not the supply air blower motor power.

TABLE 5: COOLING CAPACITIES FOR DJ180 AT 95°F

RETURN AIR		OUTDOOR AMBIENT TEMPERATURE (°F): 95								
CFM	WB TEMP °F	GROSS CAPACITY[1] (MBH)	INPUT POWER[2] (kW)	GROSS SENSIBLE CAPACITY[1] (MBH) (RETURN AIR DRY BULB TEMP. - (°F))						
				86	83	80	77	74	71	68
4500	72	201.7	13.56	117.1	104.3	91.5	78.6	65.8	#N/A	#N/A
	67	184.2	13.27	147.0	134.2	121.4	108.5	95.7	82.9	70.0
	62	172.1	13.01	172.1	159.9	147.1	134.3	121.4	108.6	95.8
	57	173.0	12.92	173.0	161.7	148.8	136.0	123.2	110.3	97.5
5250	72	207.4	13.65	129.7	114.5	99.3	84.2	60.0	#N/A	#N/A
	67	189.4	13.36	162.1	147.0	131.8	116.6	101.5	86.3	71.1
	62	177.0	13.11	177.0	160.9	159.7	144.6	129.4	114.2	99.1
	57	177.9	13.01	177.9	172.2	161.6	146.5	131.3	116.1	101.0
6000	72	213.1	13.75	142.2	124.7	107.2	89.7	72.2	#N/A	#N/A
	67	194.6	13.45	177.2	159.7	142.2	124.7	107.2	89.7	72.2
	62	181.8	13.20	181.8	181.8	172.4	154.9	137.4	119.9	102.4
	57	182.8	13.10	182.8	182.8	174.4	156.9	139.4	121.9	104.4
6750	72	219.3	13.78	153.6	133.6	113.7	93.8	73.9	#N/A	#N/A
	67	200.2	13.49	190.7	170.8	150.9	130.9	111.0	91.1	71.2
	62	187.1	13.23	187.1	187.1	182.4	162.4	152.5	122.6	102.7
	57	188.1	13.13	188.1	188.1	183.9	164.0	144.0	124.1	104.2
7500	72	225.4	13.81	164.9	142.6	120.2	97.9	75.5	#N/A	#N/A
	67	205.8	13.52	204.2	181.9	159.5	137.2	114.8	92.4	70.1
	62	192.3	13.26	192.3	192.3	192.3	170.0	147.6	125.3	102.9
	57	193.4	13.16	193.4	193.4	193.4	171.0	148.7	126.3	104.0

1. The capacities are gross ratings. For net capacity, deduct the supply air blower motor heat, MBH = 3.415 x kW. Refer to the appropriate blower performance table for the kW of the supply air blower motor.
2. These ratings include condenser fan motor and compressor motor power but not the supply air blower motor power.

TABLE 6: COOLING CAPACITIES FOR DJ180 AT 105°F

RETURN AIR		OUTDOOR AMBIENT TEMPERATURE (°F): 105								
CFM	WB TEMP °F	GROSS CAPACITY[1] (MBH)	INPUT POWER[2] (kW)	GROSS SENSIBLE CAPACITY[1] (MBH) (RETURN AIR DRY BULB TEMP. - (°F))						
				86	83	80	77	74	71	68
4500	72	190.3	15.40	112.3	99.5	86.7	73.9	61.0	#N/A	#N/A
	67	173.9	15.02	142.1	129.3	116.5	103.6	90.8	78.0	65.2
	62	163.2	14.66	163.2	152.1	139.3	126.5	113.6	100.8	88.0
	57	162.5	14.58	162.5	154.8	142.0	129.2	116.3	103.5	90.7
5250	72	195.4	15.52	124.6	109.5	94.3	79.2	64.0	#N/A	#N/A
	67	178.5	15.14	157.1	141.9	126.7	111.6	96.4	81.2	66.1
	62	167.5	14.77	167.5	162.0	151.6	136.4	121.2	106.1	90.9
	57	166.9	14.69	166.9	163.0	154.5	139.3	124.2	109.0	93.8
6000	72	200.4	15.63	136.9	119.4	102.0	84.5	67.0	#N/A	#N/A
	67	183.2	15.25	172.0	154.5	137.0	119.5	102.0	84.5	67.0
	62	171.9	14.88	171.9	171.9	163.8	146.3	128.8	111.4	93.9
	57	171.2	14.80	171.2	171.2	167.0	149.5	132.0	114.5	97.0
6750	72	206.1	15.66	148.0	128.1	108.2	88.2	68.3	#N/A	#N/A
	67	188.4	15.27	182.4	165.3	145.4	125.4	105.5	85.6	65.7
	62	176.7	14.91	176.7	176.7	172.7	152.8	132.9	112.9	93.0
	57	176.0	14.82	176.0	176.0	173.9	154.0	134.1	114.2	94.2
7500	72	211.8	15.68	159.1	136.7	114.4	92.0	69.7	#N/A	#N/A
	67	193.5	15.30	192.7	176.1	153.7	131.4	109.0	86.6	64.3
	62	181.6	14.93	181.6	181.6	181.6	159.3	136.9	114.5	92.2
	57	180.9	14.85	180.9	180.9	180.9	158.5	136.2	113.8	91.5

1. The capacities are gross ratings. For net capacity, deduct the supply air blower motor heat, MBH = 3.415 x kW. Refer to the appropriate blower performance table for the kW of the supply air blower motor.
2. These ratings include condenser fan motor and compressor motor power but not the supply air blower motor power.

TABLE 7: COOLING CAPACITIES FOR DJ180 AT 115°F

RETURN AIR		OUTDOOR AMBIENT TEMPERATURE (°F): 115								
CFM	WB TEMP °F	GROSS CAPACITY[1] (MBH)	INPUT POWER[2] (kW)	GROSS SENSIBLE CAPACITY[1] (MBH) (RETURN AIR DRY BULB TEMP. - (°F))						
				86	83	80	77	74	71	68
4500	72	178.8	17.24	107.6	94.7	81.9	69.1	56.2	#N/A	#N/A
	67	163.6	16.78	137.2	124.4	111.6	98.8	85.9	73.1	60.3
	62	154.2	16.31	154.2	144.3	131.5	118.7	105.9	93.0	80.2
	57	152.0	16.24	152.0	148.0	135.1	122.3	109.5	96.6	83.8
5250	72	183.3	17.38	119.6	104.5	89.3	74.1	59.0	#N/A	#N/A
	67	167.7	16.91	152.0	136.8	121.7	106.5	91.3	76.2	61.0
	62	158.1	16.44	158.1	153.1	143.4	128.2	113.1	97.9	82.8
	57	155.8	16.37	155.8	153.8	147.4	132.2	117.0	101.9	86.7
6000	72	187.8	17.52	131.7	114.2	96.7	79.2	61.7	#N/A	#N/A
	67	171.8	17.05	166.8	149.3	131.8	114.3	96.8	79.3	61.8
	62	161.9	16.57	161.9	161.9	155.3	137.8	120.3	102.8	85.3
	57	159.6	16.50	159.6	159.6	159.6	142.1	124.6	107.1	89.6
6750	72	193.0	17.53	142.5	122.6	102.6	82.7	62.8	#N/A	#N/A
	67	176.5	17.06	174.0	159.8	139.8	119.9	100.0	80.1	60.1
	62	166.4	16.59	166.4	166.4	163.1	143.2	123.2	103.3	83.4
	57	164.0	16.52	164.0	164.0	164.0	144.1	124.1	104.2	84.3
7500	72	198.1	17.55	153.3	130.9	108.6	86.2	63.8	#N/A	#N/A
	67	181.3	17.08	181.3	170.3	147.9	125.6	103.2	80.8	58.5
	62	170.9	16.60	170.9	170.9	170.9	148.5	126.2	103.8	81.5
	57	168.4	16.54	168.4	168.4	168.4	146.0	123.7	101.3	79.0

1. The capacities are gross ratings. For net capacity, deduct the supply air blower motor heat, MBH = 3.415 x kW. Refer to the appropriate blower performance table for the kW of the supply air blower motor.
2. These ratings include condenser fan motor and compressor motor power but not the supply air blower motor power.

TABLE 8: COOLING CAPACITIES FOR DJ180 AT 125°F

RETURN AIR		OUTDOOR AMBIENT TEMPERATURE (°F): 125								
CFM	WB TEMP °F	GROSS CAPACITY[1] (MBH)	INPUT POWER[2] (kW)	GROSS SENSIBLE CAPACITY[1] (MBH) (RETURN AIR DRY BULB TEMP. - (°F))						
				86	83	80	77	74	71	68
4500	72	167.4	19.08	102.8	89.9	77.1	64.3	51.4	#N/A	#N/A
	67	153.3	18.53	132.3	119.5	106.7	93.9	81.0	68.2	55.4
	62	145.3	17.95	145.3	136.6	123.7	110.9	98.1	85.2	72.4
	57	141.5	17.91	141.5	141.1	128.3	115.5	102.6	89.8	77.0
5250	72	171.3	19.24	114.6	99.4	84.3	69.1	54.0	#N/A	#N/A
	67	156.9	18.69	146.9	131.8	116.6	101.4	86.3	71.1	56.0
	62	148.6	18.11	148.6	144.3	135.3	120.1	104.9	89.8	74.6
	57	144.7	18.06	144.7	144.6	140.2	125.1	109.9	94.7	79.6
6000	72	175.1	19.40	126.5	109.0	91.5	74.0	56.5	#N/A	#N/A
	67	160.4	18.85	160.4	144.0	126.5	109.0	91.5	74.0	56.5
	62	152.0	18.26	152.0	152.0	146.8	129.3	111.8	94.3	76.8
	57	148.0	18.21	148.0	148.0	148.0	134.7	117.2	99.7	82.2
6750	72	179.8	19.41	136.9	117.0	97.1	77.2	57.2	#N/A	#N/A
	67	164.7	18.85	164.7	154.2	134.3	114.4	94.5	74.5	54.6
	62	156.1	18.26	156.1	156.1	153.5	133.5	113.6	93.7	73.8
	57	151.9	18.22	151.9	151.9	151.9	134.1	114.2	94.3	74.3
7500	72	184.5	19.42	147.4	125.1	102.7	80.4	58.0	#N/A	#N/A
	67	169.0	18.86	169.0	164.5	142.1	119.8	97.4	75.0	52.7
	62	160.1	18.27	160.1	160.1	160.1	137.8	115.4	93.1	70.7
	57	155.9	18.22	155.9	155.9	155.9	133.5	111.2	88.8	66.5

1. The capacities are gross ratings. For net capacity, deduct the supply air blower motor heat, MBH = 3.415 x kW. Refer to the appropriate blower performance table for the kW of the supply air blower motor.
2. These ratings include condenser fan motor and compressor motor power but not the supply air blower motor power.

TABLE 9: COOLING CAPACITIES FOR DJ210 AT 85°F

RETURN AIR		OUTDOOR AMBIENT TEMPERATURE (°F): 85								
CFM	WB TEMP °F	GROSS CAPACITY[1] (MBH)	INPUT POWER[2] (kW)	GROSS SENSIBLE CAPACITY[1] (MBH) (RETURN AIR DRY BULB TEMP. - (°F))						
				86	83	80	77	74	71	68
6000	72	238.9	14.24	142.6	125.5	108.4	91.3	74.2	#N/A	#N/A
	67	221.2	13.83	178.6	161.5	144.4	127.3	110.2	93.1	76.0
	62	207.4	13.57	207.4	192.8	175.7	158.5	141.4	124.3	107.2
	57	197.6	13.52	197.6	195.7	178.6	161.4	144.3	127.2	110.1
6500	72	246.1	14.36	154.5	135.8	117.0	98.3	79.5	#N/A	#N/A
	67	227.9	13.95	193.5	174.7	156.0	137.2	118.4	99.7	80.9
	62	213.7	13.69	213.7	206.4	189.7	170.9	152.2	133.4	114.6
	57	203.6	13.64	203.6	202.6	192.8	174.1	155.3	136.5	117.8
7000	72	253.4	14.48	166.5	146.1	125.7	105.3	84.9	#N/A	#N/A
	67	234.6	14.06	208.3	187.9	167.5	147.1	126.7	106.3	85.9
	62	220.0	13.80	220.0	220.0	203.7	183.3	162.9	142.5	122.1
	57	209.6	13.75	209.6	209.6	207.1	186.7	166.2	145.8	125.4
7875	72	258.4	14.56	180.9	157.6	134.4	111.2	87.9	#N/A	#N/A
	67	239.3	14.14	225.6	202.4	179.1	155.9	132.6	109.4	86.1
	62	224.4	13.88	224.4	224.4	216.2	193.0	169.7	146.5	123.2
	57	213.8	13.82	213.8	213.8	212.5	189.2	166.0	142.8	119.5
8750	72	263.5	14.63	195.3	169.2	143.1	117.0	91.0	#N/A	#N/A
	67	243.9	14.21	242.9	216.8	190.7	164.7	138.6	112.5	86.4
	62	228.7	13.95	228.7	228.7	228.7	202.6	176.6	150.5	124.4
	57	217.9	13.90	217.9	217.9	217.9	191.8	165.8	139.7	113.6

1. The capacities are gross ratings. For net capacity, deduct the supply air blower motor heat, MBH = 3.415 x kW. Refer to the appropriate blower performance table for the kW of the supply air blower motor.
2. These ratings include condenser fan motor and compressor motor power but not the supply air blower motor power.

TABLE 10: COOLING CAPACITIES FOR DJ210 AT 95°F

RETURN AIR		OUTDOOR AMBIENT TEMPERATURE (°F): 95								
CFM	WB TEMP °F	GROSS CAPACITY[1] (MBH)	INPUT POWER[2] (kW)	GROSS SENSIBLE CAPACITY[1] (MBH) (RETURN AIR DRY BULB TEMP. - (°F))						
				86	83	80	77	74	71	68
6000	72	222.9	15.81	136.5	119.4	102.3	85.2	68.1	#N/A	#N/A
	67	207.1	15.38	172.8	155.7	138.6	121.5	104.4	87.2	70.1
	62	197.6	15.09	197.6	181.0	163.8	146.7	129.6	112.5	95.4
	57	186.0	15.06	186.0	181.8	164.7	147.6	130.5	113.4	96.3
6500	72	231.8	15.91	149.7	130.9	112.2	93.4	74.6	#N/A	#N/A
	67	215.4	15.48	189.4	170.7	151.9	133.2	114.4	95.6	76.9
	62	205.5	15.19	205.5	197.1	179.6	160.9	142.1	123.4	104.6
	57	193.5	15.15	193.5	191.3	180.6	161.8	143.1	124.3	105.5
7000	72	240.7	16.00	162.8	142.4	122.0	101.6	81.2	#N/A	#N/A
	67	223.6	15.57	206.1	185.7	165.3	144.8	124.4	104.0	83.6
	62	213.3	15.28	213.3	213.3	195.4	175.0	154.6	134.2	113.8
	57	200.9	15.24	200.9	200.9	196.4	176.0	155.6	135.2	114.8
7875	72	243.3	16.09	176.8	153.6	130.3	107.1	83.8	#N/A	#N/A
	67	226.0	15.65	217.3	199.8	176.5	153.3	130.0	106.8	83.5
	62	215.6	15.36	215.6	215.6	206.7	183.4	160.2	136.9	113.7
	57	203.0	15.32	203.0	203.0	200.8	177.6	154.3	131.1	107.8
8750	72	245.9	16.17	190.8	164.7	138.7	112.6	86.5	#N/A	#N/A
	67	228.4	15.73	228.4	213.9	187.8	161.7	135.6	109.5	83.5
	62	217.9	15.43	217.9	217.9	217.9	191.8	165.8	139.7	113.6
	57	205.2	15.40	205.2	205.2	205.2	179.1	153.0	126.9	100.9

1. The capacities are gross ratings. For net capacity, deduct the supply air blower motor heat, MBH = 3.415 x kW. Refer to the appropriate blower performance table for the kW of the supply air blower motor.
2. These ratings include condenser fan motor and compressor motor power but not the supply air blower motor power.

TABLE 11: COOLING CAPACITIES FOR DJ210 AT 105°F

RETURN AIR		OUTDOOR AMBIENT TEMPERATURE (°F): 105								
CFM	WB TEMP °F	GROSS CAPACITY[1] (MBH)	INPUT POWER[2] (kW)	GROSS SENSIBLE CAPACITY[1] (MBH) (RETURN AIR DRY BULB TEMP. - (°F))						
				86	83	80	77	74	71	68
6000	72	210.2	17.65	131.0	113.9	96.8	79.7	62.6	#N/A	#N/A
	67	195.1	17.21	167.5	150.4	133.3	116.2	99.1	82.0	64.9
	62	186.9	17.01	186.9	170.6	153.5	136.4	119.3	102.2	85.1
	57	174.4	16.80	174.4	172.3	155.2	138.1	121.0	103.9	86.8
6500	72	218.3	17.77	143.8	125.0	106.3	87.5	68.7	#N/A	#N/A
	67	202.6	17.33	183.9	165.1	146.4	127.6	108.8	90.1	71.3
	62	194.1	17.12	194.1	186.0	168.5	149.8	131.0	112.2	93.5
	57	181.1	16.92	181.1	180.1	170.4	151.7	132.9	114.1	95.4
7000	72	226.4	17.89	156.6	136.2	115.7	95.3	74.9	#N/A	#N/A
	67	210.1	17.45	200.2	179.8	159.4	139.0	118.6	98.2	77.8
	62	201.3	17.24	201.3	201.3	183.6	163.1	142.7	122.3	101.9
	57	187.8	17.03	187.8	187.8	185.6	165.2	144.8	124.4	104.0
7875	72	228.5	17.97	171.3	148.0	124.8	101.5	78.3	#N/A	#N/A
	67	212.1	17.53	207.1	193.3	171.9	148.6	125.4	102.2	78.9
	62	203.2	17.32	203.2	203.2	194.3	171.0	147.8	124.5	101.3
	57	189.6	17.11	189.6	189.6	188.5	165.2	142.0	118.7	95.5
8750	72	230.6	18.05	186.0	159.9	133.8	107.7	81.7	#N/A	#N/A
	67	214.0	17.61	214.0	206.7	184.4	158.3	132.2	106.1	80.0
	62	205.0	17.40	205.0	205.0	205.0	178.9	152.8	126.8	100.7
	57	191.3	17.19	191.3	191.3	191.3	165.2	139.1	113.0	87.0

1. The capacities are gross ratings. For net capacity, deduct the supply air blower motor heat, MBH = 3.415 x kW. Refer to the appropriate blower performance table for the kW of the supply air blower motor.
2. These ratings include condenser fan motor and compressor motor power but not the supply air blower motor power.

TABLE 12: COOLING CAPACITIES FOR DJ210 AT 115°F

RETURN AIR		OUTDOOR AMBIENT TEMPERATURE (°F): 115								
CFM	WB TEMP °F	GROSS CAPACITY[1] (MBH)	INPUT POWER[2] (kW)	GROSS SENSIBLE CAPACITY[1] (MBH) (RETURN AIR DRY BULB TEMP. - (°F))						
				86	83	80	77	74	71	68
6000	72	197.6	19.49	125.5	108.3	91.2	74.1	57.0	#N/A	#N/A
	67	183.1	19.04	162.2	145.1	128.0	110.9	93.8	76.7	59.6
	62	176.3	18.92	176.3	160.2	143.1	126.0	108.9	91.8	74.7
	57	162.8	18.55	162.8	162.8	145.7	128.6	111.5	94.4	77.3
6500	72	204.8	19.63	137.9	119.1	100.3	81.6	62.8	#N/A	#N/A
	67	189.9	19.18	178.3	159.5	140.8	122.0	103.3	84.5	65.8
	62	182.8	19.06	182.8	174.8	157.4	138.6	119.9	101.1	82.4
	57	168.8	18.69	168.8	168.8	160.3	141.5	122.8	104.0	85.2
7000	72	212.1	19.77	150.3	129.9	109.5	89.0	68.6	#N/A	#N/A
	67	196.6	19.32	194.4	174.0	153.6	133.2	112.7	92.3	71.9
	62	189.3	19.20	189.3	189.3	171.7	151.3	130.9	110.5	90.0
	57	174.8	18.82	174.8	174.8	174.8	154.4	134.0	113.6	93.2
7875	72	213.7	19.85	165.7	142.5	119.2	96.0	72.7	#N/A	#N/A
	67	198.1	19.40	197.0	186.8	167.3	144.0	120.8	97.5	74.3
	62	190.7	19.28	190.7	190.7	181.9	158.6	135.4	112.1	88.9
	57	176.1	18.90	176.1	176.1	176.1	152.9	129.6	106.4	83.1
8750	72	215.2	19.94	181.1	155.1	129.0	102.9	76.8	#N/A	#N/A
	67	199.5	19.48	199.5	199.5	181.0	154.9	128.8	102.7	76.6
	62	192.1	19.36	192.1	192.1	192.1	166.0	139.9	113.8	87.8
	57	177.4	18.98	177.4	177.4	177.4	151.3	125.2	99.1	73.1

1. The capacities are gross ratings. For net capacity, deduct the supply air blower motor heat, MBH = 3.415 x kW. Refer to the appropriate blower performance table for the kW of the supply air blower motor.
2. These ratings include condenser fan motor and compressor motor power but not the supply air blower motor power.

TABLE 13: COOLING CAPACITIES FOR DJ210 AT 125°F

RETURN AIR		OUTDOOR AMBIENT TEMPERATURE (°F): 125								
CFM	WB TEMP °F	GROSS CAPACITY[1] (MBH)	INPUT POWER[2] (kW)	GROSS SENSIBLE CAPACITY[1] (MBH) (RETURN AIR DRY BULB TEMP. - (°F))						
				86	83	80	77	74	71	68
6000	72	184.9	21.33	119.9	102.8	85.7	68.6	51.5	#N/A	#N/A
	67	171.1	20.87	156.9	139.8	122.7	105.6	88.5	71.4	54.3
	62	165.7	20.84	165.7	149.9	132.7	115.6	98.5	81.4	64.3
	57	151.2	20.30	151.2	151.2	136.2	119.1	102.0	84.9	67.8
6500	72	191.4	21.49	132.0	113.2	94.4	75.7	56.9	#N/A	#N/A
	67	177.1	21.03	172.7	154.0	135.2	116.5	97.7	79.0	60.2
	62	171.5	21.00	171.5	163.6	146.3	127.5	108.8	90.0	71.3
	57	156.5	20.46	156.5	156.5	150.1	131.4	112.6	93.8	75.1
7000	72	197.8	21.65	144.0	123.6	103.2	82.8	62.3	#N/A	#N/A
	67	183.1	21.19	183.1	168.1	147.7	127.3	106.9	86.5	66.1
	62	177.3	21.16	177.3	177.3	159.8	139.4	119.0	98.6	78.2
	57	161.8	20.61	161.8	161.8	161.8	143.6	123.2	102.8	82.4
7875	72	198.9	21.74	160.2	136.9	113.7	90.4	67.2	#N/A	#N/A
	67	184.1	21.27	184.1	180.2	162.6	139.4	116.2	92.9	69.7
	62	178.2	21.24	178.2	178.2	169.5	146.3	123.0	99.8	76.5
	57	162.6	20.69	162.6	162.6	162.6	140.5	117.3	94.0	70.8
8750	72	199.9	21.82	176.3	150.2	124.2	98.1	72.0	#N/A	#N/A
	67	185.1	21.35	185.1	185.1	177.6	151.5	125.4	99.3	73.2
	62	179.2	21.32	179.2	179.2	179.2	153.1	127.0	100.9	74.8
	57	163.5	20.77	163.5	163.5	163.5	137.4	111.3	85.2	59.2

1. The capacities are gross ratings. For net capacity, deduct the supply air blower motor heat, MBH = 3.415 x kW. Refer to the appropriate blower performance table for the kW of the supply air blower motor.
2. These ratings include condenser fan motor and compressor motor power but not the supply air blower motor power.

TABLE 14: COOLING CAPACITIES FOR DJ240 AT 85°F

RETURN AIR		OUTDOOR AMBIENT TEMPERATURE (°F): 85								
CFM	WB TEMP °F	GROSS CAPACITY[1] (MBH)	INPUT POWER[2] (kW)	GROSS SENSIBLE CAPACITY[1] (MBH) (RETURN AIR DRY BULB TEMP. - (°F))						
				86	83	80	77	74	71	68
6000	72	273.1	16.90	149.8	132.7	115.6	98.5	81.4	#N/A	#N/A
	67	248.6	16.43	197.6	180.5	163.4	146.3	129.1	112.0	94.9
	62	231.2	16.44	227.9	210.8	193.7	176.6	159.5	142.4	125.3
	57	216.6	15.98	216.6	210.2	193.1	176.0	158.9	141.8	124.7
7000	72	278.7	16.96	165.8	145.6	125.4	105.1	84.9	#N/A	#N/A
	67	253.8	16.49	217.5	197.3	177.1	156.9	136.7	116.5	96.2
	62	236.0	16.50	234.4	225.8	210.0	189.8	169.6	149.4	129.2
	57	221.1	16.04	221.1	217.9	209.3	189.1	168.9	148.7	128.5
8000	72	284.4	17.02	181.8	158.4	135.1	111.8	88.4	#N/A	#N/A
	67	259.0	16.55	237.5	214.2	190.9	167.5	144.2	120.9	97.6
	62	240.8	16.56	240.8	240.8	226.3	203.0	179.7	156.4	133.0
	57	225.6	16.10	225.6	225.6	225.6	202.3	178.9	155.6	132.3
8700	72	291.0	17.43	193.1	167.5	141.8	116.1	90.4	#N/A	#N/A
	67	265.0	16.95	251.7	226.0	200.3	174.7	149.0	123.3	97.6
	62	246.4	16.96	246.4	246.4	237.6	211.9	186.2	160.5	134.9
	57	230.8	16.49	230.8	230.8	230.8	205.2	179.5	153.8	128.1
9400	72	297.7	17.84	204.5	176.5	148.5	120.5	92.4	#N/A	#N/A
	67	271.0	17.35	265.8	237.8	209.8	181.8	153.7	125.7	97.7
	62	252.0	17.36	252.0	252.0	248.8	220.7	192.7	164.7	136.7
	57	236.1	16.88	236.1	236.1	236.1	208.1	180.1	152.0	124.0

1. The capacities are gross ratings. For net capacity, deduct the supply air blower motor heat, MBH = 3.415 x kW. Refer to the appropriate blower performance table for the kW of the supply air blower motor.
2. These ratings include condenser fan motor and compressor motor power but not the supply air blower motor power.

TABLE 15: COOLING CAPACITIES FOR DJ240 AT 95°F

RETURN AIR		OUTDOOR AMBIENT TEMPERATURE (°F): 95								
CFM	WB TEMP °F	GROSS CAPACITY[1] (MBH)	INPUT POWER[2] (kW)	GROSS SENSIBLE CAPACITY[1] (MBH) (RETURN AIR DRY BULB TEMP. - (°F))						
				86	83	80	77	74	71	68
6000	72	257.3	18.45	150.2	133.1	116.0	98.9	81.8	#N/A	#N/A
	67	237.3	17.83	192.3	175.1	158.0	140.9	123.8	106.7	89.6
	62	215.2	17.64	215.2	200.8	183.7	166.6	149.5	132.4	115.3
	57	221.2	17.98	221.2	213.2	196.1	179.0	161.8	144.7	127.6
7000	72	264.7	18.51	167.2	146.9	126.7	106.5	86.3	#N/A	#N/A
	67	244.2	17.89	213.1	192.9	172.7	152.4	132.2	112.0	91.8
	62	221.5	17.70	221.5	214.3	200.7	180.5	160.3	140.0	119.8
	57	227.6	18.04	227.6	223.6	214.2	194.0	173.8	153.5	133.3
8000	72	272.2	18.58	184.1	160.8	137.4	114.1	90.8	#N/A	#N/A
	67	251.0	17.95	233.9	210.6	187.3	164.0	140.6	117.3	94.0
	62	227.7	17.76	227.7	227.7	217.7	194.4	171.0	147.7	124.4
	57	234.0	18.10	234.0	234.0	232.3	209.0	185.7	162.4	139.0
8700	72	277.5	18.98	195.6	169.9	144.2	118.5	92.9	#N/A	#N/A
	67	256.0	18.33	247.4	222.2	196.5	170.8	145.2	119.5	93.8
	62	232.2	18.14	232.2	232.2	227.2	201.5	175.8	150.1	124.5
	57	238.6	18.50	238.6	238.6	237.7	212.1	186.4	160.7	135.0
9400	72	282.9	19.38	207.0	179.0	151.0	123.0	94.9	#N/A	#N/A
	67	260.9	18.72	260.9	233.7	205.7	177.7	149.7	121.7	93.6
	62	236.6	18.53	236.6	236.6	236.6	208.6	180.6	152.6	124.6
	57	243.2	18.89	243.2	243.2	243.2	215.1	187.1	159.1	131.1

1. The capacities are gross ratings. For net capacity, deduct the supply air blower motor heat, MBH = 3.415 x kW. Refer to the appropriate blower performance table for the kW of the supply air blower motor.
2. These ratings include condenser fan motor and compressor motor power but not the supply air blower motor power.

TABLE 16: COOLING CAPACITIES FOR DJ240 AT 105°F

RETURN AIR		OUTDOOR AMBIENT TEMPERATURE (°F): 105								
CFM	WB TEMP °F	GROSS CAPACITY[1] (MBH)	INPUT POWER[2] (kW)	GROSS SENSIBLE CAPACITY[1] (MBH) (RETURN AIR DRY BULB TEMP. - (°F))						
				86	83	80	77	74	71	68
6000	72	244.1	20.09	146.5	129.4	112.3	95.2	78.1	#N/A	#N/A
	67	225.3	19.63	186.7	169.6	152.5	135.4	118.3	101.2	84.1
	62	202.7	19.37	202.7	194.9	177.7	160.6	143.5	126.4	109.3
	57	211.7	19.63	211.7	205.7	188.6	171.5	154.4	137.3	120.2
7000	72	250.6	20.15	162.5	142.2	122.0	101.8	81.6	#N/A	#N/A
	67	231.3	19.69	206.2	185.9	165.7	145.5	125.3	105.1	84.9
	62	208.1	19.43	208.1	204.2	193.1	172.9	152.7	132.5	112.3
	57	217.3	19.70	217.3	214.3	204.9	184.7	164.5	144.3	124.1
8000	72	257.0	20.22	178.4	155.1	131.7	108.4	85.1	#N/A	#N/A
	67	237.3	19.76	225.6	202.3	178.9	155.6	132.3	109.0	85.6
	62	213.5	19.50	213.5	213.5	208.5	185.2	161.9	138.5	115.2
	57	222.9	19.77	222.9	222.9	221.3	197.9	174.6	151.3	128.0
8700	72	264.1	20.56	191.3	165.6	139.9	114.3	88.6	#N/A	#N/A
	67	243.8	20.09	238.0	215.7	190.0	164.4	138.7	113.0	87.3
	62	219.4	19.83	219.4	219.4	216.9	191.2	165.5	139.8	114.2
	57	229.0	20.10	229.0	229.0	228.2	202.5	176.9	151.2	125.5
9400	72	271.1	20.91	204.1	176.1	148.1	120.1	92.1	#N/A	#N/A
	67	250.3	20.43	250.3	229.2	201.1	173.1	145.1	117.1	89.1
	62	225.2	20.16	225.2	225.2	225.2	197.2	169.2	141.1	113.1
	57	235.2	20.43	235.2	235.2	235.2	207.1	179.1	151.1	123.1

1. The capacities are gross ratings. For net capacity, deduct the supply air blower motor heat, MBH = 3.415 x kW. Refer to the appropriate blower performance table for the kW of the supply air blower motor.
2. These ratings include condenser fan motor and compressor motor power but not the supply air blower motor power.

TABLE 17: COOLING CAPACITIES FOR DJ240 AT 115°F

RETURN AIR		OUTDOOR AMBIENT TEMPERATURE (°F): 115								
CFM	WB TEMP °F	GROSS CAPACITY[1] (MBH)	INPUT POWER[2] (kW)	GROSS SENSIBLE CAPACITY[1] (MBH) (RETURN AIR DRY BULB TEMP. - (°F))						
				86	83	80	77	74	71	68
6000	72	230.8	21.72	142.8	125.7	108.6	91.5	74.4	#N/A	#N/A
	67	213.4	21.43	181.2	164.1	147.0	129.9	112.8	95.7	78.6
	62	190.2	21.09	190.2	188.9	171.8	154.7	137.6	120.5	103.4
	57	202.2	21.28	202.2	198.2	181.1	164.0	146.9	129.8	112.7
7000	72	236.4	21.79	157.8	137.5	117.3	97.1	76.9	#N/A	#N/A
	67	218.5	21.50	199.2	179.0	158.8	138.6	118.4	98.1	77.9
	62	194.8	21.16	194.8	194.1	185.6	165.4	145.1	124.9	104.7
	57	207.0	21.35	207.0	205.1	195.7	175.4	155.2	135.0	114.8
8000	72	241.9	21.87	172.7	149.4	126.0	102.7	79.4	#N/A	#N/A
	67	223.6	21.58	217.3	193.9	170.6	147.3	123.9	100.6	77.3
	62	199.4	21.24	199.4	199.4	199.4	176.0	152.7	129.4	106.1
	57	211.9	21.43	211.9	211.9	210.2	186.9	163.5	140.2	116.9
8700	72	250.6	22.15	187.0	161.3	135.6	110.0	84.3	#N/A	#N/A
	67	231.7	21.85	228.5	209.3	183.6	157.9	132.2	106.6	80.9
	62	206.6	21.51	206.6	206.6	206.6	180.9	155.2	129.5	103.9
	57	219.5	21.70	219.5	219.5	218.7	193.0	167.3	141.7	116.0
9400	72	259.4	22.43	201.3	173.3	145.2	117.2	89.2	#N/A	#N/A
	67	239.7	22.13	239.7	224.6	196.6	168.6	140.5	112.5	84.5
	62	213.8	21.78	213.8	213.8	213.8	185.7	157.7	129.7	101.7
	57	227.2	21.98	227.2	227.2	227.2	199.2	171.1	143.1	115.1

1. The capacities are gross ratings. For net capacity, deduct the supply air blower motor heat, MBH = 3.415 x kW. Refer to the appropriate blower performance table for the kW of the supply air blower motor.
2. These ratings include condenser fan motor and compressor motor power but not the supply air blower motor power.

TABLE 18: COOLING CAPACITIES FOR DJ240 AT 125°F

RETURN AIR		OUTDOOR AMBIENT TEMPERATURE (°F): 125								
CFM	WB TEMP °F	GROSS CAPACITY[1] (MBH)	INPUT POWER[2] (kW)	GROSS SENSIBLE CAPACITY[1] (MBH) (RETURN AIR DRY BULB TEMP. - (°F))						
				86	83	80	77	74	71	68
6000	72	217.6	23.35	139.1	122.0	104.9	87.8	70.7	#N/A	#N/A
	67	201.4	23.23	175.7	158.6	141.5	124.4	107.3	90.2	73.1
	62	177.7	22.82	177.7	177.7	165.8	148.7	131.6	114.5	97.4
	57	192.7	22.93	192.7	190.8	173.7	156.5	139.4	122.3	105.2
7000	72	222.2	23.43	153.1	132.8	112.6	92.4	72.2	#N/A	#N/A
	67	205.6	23.31	192.3	172.1	151.9	131.7	111.4	91.2	71.0
	62	181.5	22.90	181.5	181.5	178.0	157.8	137.6	117.4	97.1
	57	196.8	23.01	196.8	195.8	186.4	166.2	146.0	125.7	105.5
8000	72	226.8	23.51	167.0	143.7	120.3	97.0	73.7	#N/A	#N/A
	67	209.9	23.39	208.9	185.6	162.3	138.9	115.6	92.3	68.9
	62	185.2	22.98	185.2	185.2	185.2	166.9	143.5	120.2	96.9
	57	200.8	23.09	200.8	200.8	199.1	175.8	152.5	129.1	105.8
8700	72	237.2	23.74	182.7	157.0	131.3	105.7	80.0	#N/A	#N/A
	67	219.5	23.61	219.0	202.8	177.1	151.5	125.8	100.1	74.4
	62	193.7	23.19	193.7	193.7	193.7	170.6	144.9	119.2	93.6
	57	210.0	23.30	210.0	210.0	209.2	183.5	157.8	132.1	106.5
9400	72	247.6	23.96	198.4	170.4	142.4	114.3	86.3	#N/A	#N/A
	67	229.1	23.84	229.1	220.0	192.0	164.0	136.0	107.9	79.9
	62	202.3	23.41	202.3	202.3	202.3	174.3	146.3	118.2	90.2
	57	219.2	23.52	219.2	219.2	219.2	191.2	163.2	135.1	107.1

1. The capacities are gross ratings. For net capacity, deduct the supply air blower motor heat, MBH = 3.415 x kW. Refer to the appropriate blower performance table for the kW of the supply air blower motor.
2. These ratings include condenser fan motor and compressor motor power but not the supply air blower motor power.

TABLE 19: COOLING CAPACITIES FOR DJ300 AT 85°F

RETURN AIR		OUTDOOR AMBIENT TEMPERATURE (°F): 85								
CFM	WB TEMP °F	GROSS CAPACITY[1] (MBH)	INPUT POWER[2] (kW)	GROSS SENSIBLE CAPACITY[1] (MBH) (RETURN AIR DRY BULB TEMP. - (°F))						
				86	83	80	77	74	71	68
7500	72	332.2	21.58	206.4	185.0	163.6	142.3	120.9	#N/A	#N/A
	67	327.2	21.26	256.1	234.7	213.3	192.0	170.6	149.2	127.8
	62	321.0	20.60	320.3	298.9	277.5	256.1	234.7	213.4	192.0
	57	313.6	20.57	313.6	305.9	284.5	263.1	241.8	220.4	199.0
8750	72	329.6	22.39	217.2	191.9	166.6	141.4	116.1	#N/A	#N/A
	67	324.6	22.06	267.8	242.5	217.3	192.0	166.7	141.4	116.2
	62	318.4	21.37	318.0	307.3	282.6	257.3	232.0	206.8	181.5
	57	311.1	21.34	311.1	307.2	289.7	264.5	239.2	213.9	188.6
10000	72	326.9	23.20	228.0	198.8	169.6	140.5	111.3	#N/A	#N/A
	67	321.9	22.86	279.5	250.3	221.2	192.0	162.8	133.7	104.5
	62	315.8	22.15	315.8	315.8	287.7	258.5	229.4	200.2	171.0
	57	308.5	22.12	308.5	308.5	294.9	265.8	236.6	207.5	178.3
11250	72	333.6	23.42	241.2	208.0	174.8	141.6	108.4	#N/A	#N/A
	67	328.6	23.07	294.3	261.1	227.9	194.7	161.5	128.3	95.1
	62	322.3	22.35	322.3	322.3	296.5	263.3	230.0	196.8	163.6
	57	314.9	22.32	314.9	314.9	304.0	270.7	237.5	204.3	171.1
12500	72	340.4	23.63	254.5	217.3	180.0	142.7	105.5	#N/A	#N/A
	67	335.2	23.28	309.2	271.9	234.7	197.4	160.2	122.9	85.6
	62	328.8	22.55	328.8	328.8	305.2	268.0	230.7	193.5	156.2
	57	321.3	22.53	321.3	321.3	313.0	275.7	238.4	201.2	163.9

1. The capacities are gross ratings. For net capacity, deduct the supply air blower motor heat, MBH = 3.415 x kW. Refer to the appropriate blower performance table for the kW of the supply air blower motor.
2. These ratings include condenser fan motor and compressor motor power but not the supply air blower motor power.

TABLE 20: COOLING CAPACITIES FOR DJ300 AT 95°F

RETURN AIR		OUTDOOR AMBIENT TEMPERATURE (°F): 95								
CFM	WB TEMP °F	GROSS CAPACITY[1] (MBH)	INPUT POWER[2] (kW)	GROSS SENSIBLE CAPACITY[1] (MBH) (RETURN AIR DRY BULB TEMP. - (°F))						
				86	83	80	77	74	71	68
7500	72	324.4	25.42	191.5	170.2	148.8	127.4	106.0	#N/A	#N/A
	67	305.5	24.73	245.9	224.5	203.1	181.7	160.4	139.0	117.6
	62	301.1	24.23	295.5	274.2	252.8	231.4	210.0	188.6	167.2
	57	292.2	24.07	292.2	277.1	255.7	234.3	212.9	191.5	170.1
8750	72	326.8	25.46	207.5	182.3	157.0	131.7	106.4	#N/A	#N/A
	67	307.7	24.76	264.9	239.6	214.4	189.1	163.8	138.5	113.3
	62	303.3	24.26	300.5	289.8	266.7	241.5	216.2	190.9	165.7
	57	294.3	24.10	294.3	286.7	269.8	244.5	219.3	194.0	168.7
10000	72	329.1	25.49	223.5	194.4	165.2	136.1	106.9	#N/A	#N/A
	67	309.9	24.79	283.9	254.7	225.6	196.4	167.3	138.1	108.9
	62	305.5	24.29	305.5	305.5	280.7	251.6	222.4	193.2	164.1
	57	296.4	24.13	296.4	296.4	283.9	254.8	225.6	196.5	167.3
11250	72	336.1	25.73	238.9	205.7	172.5	139.3	106.1	#N/A	#N/A
	67	316.4	25.02	302.0	268.8	235.5	202.3	169.1	135.9	102.7
	62	311.9	24.52	311.9	311.9	293.1	259.9	226.7	193.5	160.3
	57	302.7	24.36	302.7	302.7	296.5	263.2	230.0	196.8	163.6
12500	72	343.1	25.96	254.3	217.1	179.8	142.5	105.3	#N/A	#N/A
	67	323.0	25.25	320.0	282.8	245.5	208.2	171.0	133.7	96.5
	62	318.4	24.74	318.4	318.4	305.5	268.2	231.0	193.7	156.5
	57	309.0	24.58	309.0	309.0	309.0	271.7	234.4	197.2	159.9

1. The capacities are gross ratings. For net capacity, deduct the supply air blower motor heat, MBH = 3.415 x kW. Refer to the appropriate blower performance table for the kW of the supply air blower motor.
2. These ratings include condenser fan motor and compressor motor power but not the supply air blower motor power.

TABLE 21: COOLING CAPACITIES FOR DJ300 AT 105°F

RETURN AIR		OUTDOOR AMBIENT TEMPERATURE (°F): 105								
CFM	WB TEMP °F	GROSS CAPACITY[1] (MBH)	INPUT POWER[2] (kW)	GROSS SENSIBLE CAPACITY[1] (MBH) (RETURN AIR DRY BULB TEMP. - (°F))						
				86	83	80	77	74	71	68
7500	72	301.8	27.73	184.5	163.2	141.8	120.4	99.0	#N/A	#N/A
	67	289.0	27.27	238.8	217.4	196.0	174.6	153.2	131.9	110.5
	62	283.6	26.57	280.8	259.7	238.3	216.9	195.5	174.1	152.7
	57	271.5	26.43	271.5	260.3	238.9	217.6	196.2	174.8	153.4
8750	72	306.8	27.83	201.3	176.1	150.8	125.5	100.2	#N/A	#N/A
	67	293.9	27.37	259.0	233.7	208.5	183.2	157.9	132.7	107.4
	62	288.3	26.67	286.9	276.4	253.4	228.1	202.8	177.6	152.3
	57	276.1	26.53	276.1	270.5	254.1	228.8	203.5	178.3	153.0
10000	72	311.8	27.93	218.1	188.9	159.8	130.6	101.5	#N/A	#N/A
	67	298.7	27.47	279.3	250.1	220.9	191.8	162.6	133.5	104.3
	62	293.1	26.77	293.1	293.1	268.5	239.3	210.2	181.0	151.9
	57	280.6	26.63	280.6	280.6	269.2	240.0	210.9	181.7	152.6
11250	72	318.7	28.19	233.1	199.9	166.7	133.5	100.3	#N/A	#N/A
	67	305.4	27.73	294.9	263.7	230.5	197.3	164.1	130.9	97.7
	62	299.6	27.02	299.6	299.6	280.1	246.9	213.7	180.5	147.3
	57	286.8	26.88	286.8	286.8	280.9	247.7	214.5	181.2	148.0
12500	72	325.6	28.46	248.2	210.9	173.6	136.4	99.1	#N/A	#N/A
	67	312.0	27.99	310.5	277.4	240.1	202.8	165.6	128.3	91.1
	62	306.0	27.27	306.0	306.0	291.8	254.5	217.3	180.0	142.8
	57	293.0	27.13	293.0	293.0	292.5	255.3	218.0	180.8	143.5

1. The capacities are gross ratings. For net capacity, deduct the supply air blower motor heat, MBH = 3.415 x kW. Refer to the appropriate blower performance table for the kW of the supply air blower motor.
2. These ratings include condenser fan motor and compressor motor power but not the supply air blower motor power.

TABLE 22: COOLING CAPACITIES FOR DJ300 AT 115°F

RETURN AIR		OUTDOOR AMBIENT TEMPERATURE (°F): 115								
CFM	WB TEMP °F	GROSS CAPACITY[1] (MBH)	INPUT POWER[2] (kW)	GROSS SENSIBLE CAPACITY[1] (MBH) (RETURN AIR DRY BULB TEMP. - (°F))						
				86	83	80	77	74	71	68
7500	72	279.1	30.03	177.6	156.2	134.8	113.4	92.0	#N/A	#N/A
	67	272.6	29.81	231.6	210.3	188.9	167.5	146.1	124.7	103.3
	62	266.0	28.91	266.0	245.2	223.8	202.4	181.0	159.6	138.3
	57	250.9	28.79	250.9	243.6	222.2	200.8	179.4	158.1	136.7
8750	72	286.9	30.20	195.1	169.8	144.6	119.3	94.0	#N/A	#N/A
	67	280.1	29.98	253.1	227.9	202.6	177.3	152.0	126.8	101.5
	62	273.3	29.07	273.3	262.9	240.0	214.8	189.5	164.2	138.9
	57	257.9	28.96	257.9	254.2	238.3	213.1	187.8	162.5	137.3
10000	72	294.6	30.38	212.7	183.5	154.4	125.2	96.0	#N/A	#N/A
	67	287.6	30.16	274.6	245.5	216.3	187.1	158.0	128.8	99.7
	62	280.7	29.24	280.7	280.7	256.3	227.1	198.0	168.8	139.6
	57	264.8	29.13	264.8	264.8	254.5	225.3	196.2	167.0	137.8
11250	72	301.4	30.66	227.3	194.1	160.9	127.7	94.5	#N/A	#N/A
	67	294.3	30.44	287.8	258.7	225.5	192.3	159.1	125.9	92.7
	62	287.2	29.52	287.2	287.2	267.2	234.0	200.8	167.6	134.3
	57	270.9	29.40	270.9	270.9	265.3	232.1	198.9	165.7	132.5
12500	72	308.2	30.95	242.0	204.8	167.5	130.2	93.0	#N/A	#N/A
	67	300.9	30.72	300.9	272.0	234.7	197.4	160.2	122.9	85.7
	62	293.6	29.79	293.6	293.6	278.1	240.8	203.6	166.3	129.0
	57	277.0	29.68	277.0	277.0	276.1	238.9	201.6	164.3	127.1

1. The capacities are gross ratings. For net capacity, deduct the supply air blower motor heat, MBH = 3.415 x kW. Refer to the appropriate blower performance table for the kW of the supply air blower motor.
2. These ratings include condenser fan motor and compressor motor power but not the supply air blower motor power.

TABLE 23: COOLING CAPACITIES FOR DJ300 AT 125°F

RETURN AIR		OUTDOOR AMBIENT TEMPERATURE (°F): 125								
CFM	WB TEMP °F	GROSS CAPACITY[1] (MBH)	INPUT POWER[2] (kW)	GROSS SENSIBLE CAPACITY[1] (MBH) (RETURN AIR DRY BULB TEMP. - (°F))						
				86	83	80	77	74	71	68
7500	72	256.5	32.33	170.6	149.2	127.8	106.4	85.0	#N/A	#N/A
	67	256.1	32.35	224.5	203.1	181.8	160.4	139.0	117.6	96.2
	62	248.4	31.25	248.4	230.7	209.3	187.9	166.5	145.2	123.8
	57	230.3	31.16	230.3	226.9	205.5	184.1	162.7	141.3	120.0
8750	72	266.9	32.57	188.9	163.6	138.4	113.1	87.8	#N/A	#N/A
	67	266.3	32.60	247.2	222.0	196.7	171.4	146.2	120.9	95.6
	62	258.4	31.48	258.4	249.5	226.7	201.4	176.1	150.9	125.6
	57	239.7	31.39	239.7	237.9	222.6	197.3	172.1	146.8	121.5
10000	72	277.3	32.82	207.3	178.1	148.9	119.8	90.6	#N/A	#N/A
	67	276.5	32.84	270.0	240.8	211.7	182.5	153.3	124.2	95.0
	62	268.3	31.71	268.3	268.3	244.1	214.9	185.7	156.6	127.4
	57	249.0	31.63	249.0	249.0	239.7	210.6	181.4	152.3	123.1
11250	72	284.0	33.13	221.6	188.3	155.1	121.9	88.7	#N/A	#N/A
	67	283.2	33.15	280.7	253.7	220.5	187.3	154.1	120.8	87.6
	62	274.8	32.01	274.8	274.8	254.2	221.0	187.8	154.6	121.4
	57	255.0	31.92	255.0	255.0	249.7	216.5	183.3	150.1	116.9
12500	72	290.7	33.44	235.9	198.6	161.3	124.1	86.8	#N/A	#N/A
	67	289.8	33.46	289.8	266.6	229.3	192.0	154.8	117.5	80.3
	62	281.3	32.32	281.3	281.3	264.4	227.1	189.9	152.6	115.3
	57	261.0	32.22	261.0	261.0	259.7	222.4	185.2	147.9	110.7

1. The capacities are gross ratings. For net capacity, deduct the supply air blower motor heat, MBH = 3.415 x kW. Refer to the appropriate blower performance table for the kW of the supply air blower motor.
2. These ratings include condenser fan motor and compressor motor power but not the supply air blower motor power.

TABLE 24: SUPPLY AIR BLOWER PERFORMANCE (15 TON) - COOLING ONLY
180 MBH - BOTTOM DUCT CONNECTIONS

BLOWER SPEED, (RPM)	MOTOR PULLEY (TURNS OPEN)*	CFM														
		4500			5250			6000			6750			7200		
		ESP	BHP	KW	ESP	BHP	KW	ESP	BHP	KW	ESP	BHP	KW	ESP	BHP	KW
208 VOLT AND STANDARD DRIVE																
850	6.0**	0.9	2.4	2.2	0.7	3.0	2.7	0.5	3.2	2.9	-	-	-	-	-	-
870	5.5	1.0	2.5	2.3	0.8	3.1	2.8	0.6	3.5	3.1	0.2	4.1	3.7	-	-	-
915	4.5	1.1	2.6	2.4	0.9	3.4	3.0	0.7	3.7	3.3	0.3	4.4	3.9	0.2	4.5	4.0
965	3.5	1.2	2.9	2.6	1.0	3.6	3.2	0.8	4.0	3.6	0.5	4.7	4.2	0.4	4.9	4.4
980	3.0	1.3	3.0	2.7	1.1	3.7	3.3	0.9	4.1	3.7	0.6	4.8.	4.3	0.5	5.1	4.6
1010	2.0	1.4	3.1	2.8	1.2	3.8	3.4	1.0	4.2	3.8	0.7	5.0	4.5	0.6	5.4	4.8
1040	1.0	1.5	3.2	2.9	1.3	3.9	3.5	1.1	4.5	4.0	0.9	5.2	4.7	0.7	5.7	5.1
208 VOLT AND HIGH SPEED DRIVE																
965	6.0	1.2	2.9	2.6	1.0	3.6	3.2	0.8	4.0	3.6	0.5	4.7	4.2	0.4	5.0	4.4
980	5.5	1.3	3.0	2.7	1.1	3.7	3.3	0.9	4.1	3.7	0.6	4.8	4.3	0.5	5.1	4.6
1025	4.5	1.5	3.2	2.9	1.3	3.9	3.5	1.1	4.5	4.0	0.8	5.1	4.6	0.7	5.6	5.0
1065	3.5	1.6	3.4	3.0	1.4	4.0	3.6	1.2	4.7	4.2	1.0	5.5	4.9	-	-	-
1095	3.0	1.7	3.5	3.1	1.5	4.2	3.8	1.3	4.9	4.4	1.2	5.7	5.1	-	-	-
1130	2.0	1.9	3.7	3.3	1.7	4.5	4.0	1.5	5.1	4.6	-	-	-	-	-	-
1170	1.0	2.1	3.9	3.5	2.0	4.7	4.2	1.8	5.5	4.9	-	-	-	-	-	-
230/460/575 VOLT AND STANDARD DRIVE																
870	6.0**	1.0	2.4	2.2	0.8	3.1	2.8	0.6	3.5	3.1	0.2	4.1	3.7	-	-	-
915	5.0	1.1	2.6	2.4	0.9	3.3	3.0	0.7	3.7	3.3	0.3	4.4	3.9	0.2	4.5	4.0
965	4.0	1.2	2.9	2.6	1.0	3.6	3.2	0.8	4.0	3.6	0.5	4.7	4.2	0.4	5.0	4.4
980	3.5	1.3	3.0	2.7	1.1	3.7	3.3	0.9	4.1	3.7	0.6	4.8	4.3	0.5	5.1	4.6
1040	2.0	1.5	3.2	2.9	1.3	3.9	3.5	1.1	4.5	4.0	0.9	5.3	4.7	0.7	5.7	5.1
1065	1.0	1.6	3.3	3.0	1.4	4.0	3.6	1.2	4.7	4.2	1.0	5.5	4.9	-	-	-
230/460/575 VOLT AND HIGH SPEED DRIVE																
980	6.0	1.3	2.9	2.6	1.1	3.7	3.3	0.9	4.1	3.7	0.6	4.8	4.3	0.5	5.1	4.6
1040	4.5	1.5	3.2	2.9	1.3	3.9	3.5	1.1	4.5	4.0	0.9	5.3	4.7	0.7	5.7	5.1
1065	4.0	1.6	3.4	3.0	1.4	4.0	3.6	1.2	4.7	4.2	1.0	5.5	4.9	-	-	-
1095	3.5	1.7	3.5	3.1	1.5	4.2	3.8	1.3	4.9	4.4	1.2	5.7	5.1	-	-	-
1130	2.5	1.9	3.7	3.3	1.7	4.5	4.0	1.5	5.1	4.6	-	-	-	-	-	-
1170	1.5	2.1	3.9	3.5	2.0	4.7	4.2	1.8	5.5	4.9	-	-	-	-	-	-
1190	1.0	2.2	4.0	3.6	2.1	4.8	4.3	2.0	5.7	5.1	-	-	-	-	-	-

NOTES:
1. Blower performance includes fixed outdoor air, 2” T/A filters, a dry evaporator coil and no electric heat.
2. Refer to Table 13 for additional static resistances.
   ESP = External Static Pressure available for the supply and return air duct system. All internal unit resistances have been deducted from the total static pressure of the blower.
   * Do NOT close the pulley below 1 turn open.
   ** Factory setting.

TABLE 25: SUPPLY AIR BLOWER PERFORMANCE (17.5 TON) - COOLING ONLY
210 MBH - BOTTOM DUCT CONNECTIONS

BLOWER SPEED, (RPM)	MOTOR PULLEY (TURNS OPEN)*	CFM											
		6000			7000			8000			9000		
		ESP	BHP	KW	ESP	BHP	KW	ESP	BHP	KW	ESP	BHP	KW
208 VOLT AND STANDARD DRIVE													
870	6.0**	0.4	2.1	1.8	0.1	2.3	2.0	-	-	-	-	-	-
900	5.0	0.8	3.2	2.7	0.5	3.5	2.9	0.2	3.8	3.2	-	-	-
930	4.0	1.1	4.1	3.4	0.9	4.5	3.8	0.6	4.9	4.1	0.1	5.1	4.3
950	3.0	1.3	4.6	3.9	1.1	5.1	4.3	0.8	5.5	4.6	0.4	5.9	5.0
980	2.0	1.6	5.3	4.5	1.4	5.8	4.9	1.2	6.3	5.3	0.7	6.9	5.8
1015	1.0	1.9	5.9	5.0	1.7	6.5	5.5	1.5	7.0	5.9	1.0	7.7	6.5
208 VOLT AND HIGH SPEED DRIVE													
950	6.0	1.3	4.6	3.9	1.1	5.1	4.3	0.8	5.5	4.6	0.4	5.9	5.0
980	5.0	1.6	5.3	4.5	1.4	5.8	4.9	1.2	6.3	5.3	0.7	6.9	5.8
1010	4.0	1.8	5.8	4.9	1.7	6.3	5.3	1.5	6.9	5.8	1.0	7.5	6.3
1020	3.5	1.9	6.1	5.1	1.8	6.5	5.5	1.6	7.1	6.0	1.1	7.8	6.6
1035	3.0	2.0	6.2	5.2	1.9	6.8	5.7	1.7	7.4	6.2	1.2	8.1	6.8
1050	2.5	2.1	6.4	5.4	2.0	7.0	5.9	1.8	7.6	6.4	1.3	8.3	7.0
1075	2.0	2.3	6.6	5.5	2.1	7.2	6.0	1.9	7.8	6.6	1.5	8.6	7.2
1100	1.0	2.4	6.7	5.6	2.2	7.3	6.1	2.1	7.9	6.7	-	-	-
230/460/575 VOLT AND STANDARD DRIVE													
870	6.0**	0.4	2.1	1.8	0.1	2.3	2.0	-	-	-	-	-	-
900	5.0	0.8	3.2	2.7	0.5	3.5	2.9	0.2	3.8	3.2	-	-	-
930	4.0	1.1	4.1	3.4	0.9	4.5	3.8	0.6	4.9	4.1	0.1	5.1	4.3
950	3.5	1.3	4.6	3.9	1.1	5.1	4.3	0.8	5.5	4.6	0.4	5.9	5.0
980	2.5	1.6	5.3	4.5	1.4	5.8	4.9	1.2	6.3	5.3	0.7	6.9	5.8
1015	1.5	1.9	5.9	5.0	1.7	6.5	5.5	1.5	7.0	5.9	1.0	7.7	6.5
1025	1.0	2.0	6.1	5.1	1.8	6.6	5.6	1.6	7.3	6.1	1.1	7.9	6.7
230/460/575 VOLT AND HIGH SPEED DRIVE													
950	6.0	1.3	4.6	3.9	1.1	5.1	4.3	0.8	5.5	4.6	0.4	5.9	5.0
980	5.0	1.6	5.3	4.5	1.4	5.8	4.9	1.2	6.3	5.3	0.7	6.9	5.8
1015	4.0	1.9	5.9	5.0	1.7	6.5	5.5	1.5	7.0	5.9	1.0	7.7	6.5
1035	3.5	2.0	6.2	5.2	1.9	6.8	5.7	1.7	7.4	6.2	1.2	8.1	6.8
1050	3.0	2.1	6.4	5.4	2.0	7.0	5.9	1.8	7.6	6.4	1.3	8.3	7.0
1080	2.0	2.3	6.6	5.5	2.1	7.2	6.0	1.9	7.8	6.6	1.5	8.6	7.2
1100	1.5	2.4	6.7	5.6	2.2	7.3	6.1	2.1	7.9	6.7	-	-	-
1120	1.0	2.5	6.8	5.7	2.3	7.4	6.2	2.2	8.1	6.8	-	-	-

NOTES: 1. Blower performance includes fixed outdoor air, 2" T/A filters, a dry evaporator coil and no electric heat.
2. Refer to Table 13 for additional static resistances.
ESP = External Static Pressure available for the supply and return air duct system. All internal unit resistances have been deducted from the total static pressure of the blower.
* Do NOT close the pulley below 1 turn open.
** Factory setting.

TABLE 26: SUPPLY AIR BLOWER PERFORMANCE (20 TON) - COOLING ONLY
240 MBH - BOTTOM DUCT CONNECTIONS

BLOWER SPEED, (RPM)	MOTOR PULLEY (TURNS OPEN)*	CFM														
		6000			7000			8000			9000			9400		
		ESP	BHP	KW	ESP	BHP	KW	ESP	BHP	KW	ESP	BHP	KW	ESP	BHP	KW
208 VOLT AND STANDARD DRIVE																
870	6.0**	0.4	2.1	1.8	0.1	2.3	2.0	-	-	-	-	-	-	-	-	-
900	5.0	0.8	3.2	2.7	0.5	3.5	2.9	0.2	3.8	3.2	-	-	-	-	-	-
930	4.0	1.1	4.1	3.4	0.9	4.5	3.8	0.6	4.9	4.1	0.1	5.1	4.3	-	-	-
950	3.0	1.3	4.6	3.9	1.1	5.1	4.3	0.8	5.5	4.6	0.4	5.9	5.0	-	-	-
980	2.0	1.6	5.3	4.5	1.4	5.8	4.9	1.2	6.3	5.3	0.7	6.9	5.8	0.2	7.3	6.1
1015	1.0	1.9	5.9	5.0	1.7	6.5	5.5	1.5	7.0	5.9	1.0	7.7	6.5	0.6	8.2	6.9
208 VOLT AND HIGH SPEED DRIVE																
950	6.0	1.3	4.6	3.9	1.1	5.1	4.3	0.8	5.5	4.6	0.4	5.9	5.0	-	-	-
980	5.0	1.6	5.3	4.5	1.4	5.8	4.9	1.2	6.3	5.3	0.7	6.9	5.8	0.2	7.3	6.1
1010	4.0	1.8	5.8	4.9	1.7	6.3	5.3	1.5	6.9	5.8	1.0	7.5	6.3	0.5	7.9	6.7
1020	3.5	1.9	6.1	5.1	1.8	6.5	5.5	1.6	7.1	6.0	1.1	7.8	6.6	0.6	8.3	7.0
1035	3.0	2.0	6.2	5.2	1.9	6.8	5.7	1.7	7.4	6.2	1.2	8.1	6.8	0.7	8.6	7.3
1050	2.5	2.1	6.4	5.4	2.0	7.0	5.9	1.8	7.6	6.4	1.3	8.3	7.0	-	-	-
1075	2.0	2.3	6.6	5.5	2.1	7.2	6.0	1.9	7.8	6.6	1.5	8.6	7.2	-	-	-
1100	1.0	2.4	6.7	5.6	2.2	7.3	6.1	2.1	7.9	6.7	-	-	-	-	-	-
230/460/575 VOLT AND STANDARD DRIVE																
870	6.0**	0.4	2.1	1.8	0.1	2.3	2.0	-	-	-	-	-	-	-	-	-
900	5.0	0.8	3.2	2.7	0.5	3.5	2.9	0.2	3.8	3.2	-	-	-	-	-	-
930	4.0	1.1	4.1	3.4	0.9	4.5	3.8	0.6	4.9	4.1	0.1	5.1	4.3	-	-	-
950	3.5	1.3	4.6	3.9	1.1	5.1	4.3	0.8	5.5	4.6	0.4	5.9	5.0	-	-	-
980	2.5	1.6	5.3	4.5	1.4	5.8	4.9	1.2	6.3	5.3	0.7	6.9	5.8	0.2	7.3	6.1
1015	1.5	1.9	5.9	5.0	1.7	6.5	5.5	1.5	7.0	5.9	1.0	7.7	6.5	0.6	8.2	6.9
1025	1.0	2.0	6.1	5.1	1.8	6.6	5.6	1.6	7.3	6.1	1.1	7.9	6.7	0.7	8.6	7.3
230/460/575 VOLT AND HIGH SPEED DRIVE																
950	6.0	1.3	4.6	3.9	1.1	5.1	4.3	0.8	5.5	4.6	0.4	5.9	5.0	-	-	-
980	5.0	1.6	5.3	4.5	1.4	5.8	4.9	1.2	6.3	5.3	0.7	6.9	5.8	0.2	7.3	6.1
1015	4.0	1.9	5.9	5.0	1.7	6.5	5.5	1.5	7.0	5.9	1.0	7.7	6.5	0.6	8.2	6.9
1035	3.5	2.0	6.2	5.2	1.9	6.8	5.7	1.7	7.4	6.2	1.2	8.1	6.8	0.7	8.6	7.3
1050	3.0	2.1	6.4	5.4	2.0	7.0	5.9	1.8	7.6	6.4	1.3	8.3	7.0	-	-	-
1080	2.0	2.3	6.6	5.5	2.1	7.2	6.0	1.9	7.8	6.6	1.5	8.6	7.2	-	-	-
1100	1.5	2.4	6.7	5.6	2.2	7.3	6.1	2.1	7.9	6.7	-	-	-	-	-	-
1120	1.0	2.5	6.8	5.7	2.3	7.4	6.2	2.2	8.1	6.8	-	-	-	-	-	-

NOTES: 1. Blower performance includes fixed outdoor air, 2" T/A filters, a dry evaporator coil and no electric heat.
2. Refer to Table 13 for additional static resistances.
ESP = External Static Pressure available for the supply and return air duct system. All internal unit resistances have been deducted from the total static pressure of the blower.
* Do NOT close the pulley below 1 turn open.
** Factory setting.

TABLE 27: SUPPLY AIR BLOWER PERFORMANCE (15 TON) - GAS HEAT
180 MBH - BOTTOM DUCT CONNECTIONS

BLOWER SPEED, (RPM)	MOTOR PULLEY (TURNS OPEN)*	CFM														
		4500			5250			6000			6750			7200		
		ESP	BHP	KW	ESP	BHP	KW	ESP	BHP	KW	ESP	BHP	KW	ESP	BHP	KW
208 VOLT AND STANDARD DRIVE																
850	6.0**	0.9	2.4	2.1	0.6	2.9	2.6	0.3	3.4	3.0	-	-	-	-	-	-
870	5.5	1.0	2.5	2.2	0.7	3.0	2.7	0.4	3.5	3.1	-	-	-	-	-	-
915	4.5	1.1	2.6	2.4	0.8	3.1	2.8	0.5	3.6	3.2	0.2	4.1	3.7	-	-	-
965	3.5	1.2	2.7	2.5	0.9	3.2	2.9	0.6	3.7	3.3	0.4	4.4	3.0	0.2	5.0	4.5
980	3.0	1.3	2.9	2.6	1.0	3.4	3.0	0.7	3.8	3.4	0.5	4.5	4.0	0.3	5.1	4.6
1010	2.0	1.4	3.0	2.7	1.1	3.6	3.2	0.8	4.0	3.6	0.6	4.7	4.2	0.4	5.4	4.8
1040	1.0	1.6	3.2	2.9	1.3	3.8	3.4	1.0	4.4	3.9	0.8	5.0	4.5	0.6	5.6	5.0
208 VOLT AND HIGH SPEED DRIVE																
965	6.0	1.2	2.7	2.5	0.9	3.2	2.9	0.6	3.7	3.3	0.4	4.4	3.9	0.2	5.0	4.5
980	5.5	1.3	2.9	2.6	1.0	3.4	3.0	0.7	3.8	3.4	0.5	4.5	4.0	0.3	5.1	4.6
1025	4.5	1.4	3.1	2.8	1.2	3.6	3.2	0.9	4.1	3.7	0.7	4.8	4.3	0.4	5.5	4.9
1065	3.5	1.6	3.4	3.0	1.4	3.9	3.5	1.1	4.5	4.0	0.9	5.1	4.6	-	-	-
1125	2.0	1.9	3.6	3.2	1.7	4.4	3.9	1.4	5.0	4.5	1.2	5.8	5.2	-	-	-
1170	1.0	2.1	3.9	3.5	1.9	4.7	4.2	1.6	5.5	4.9	-	-	-	-	-	-
230/460/575 VOLT AND STANDARD DRIVE																
870	6.0**	1.0	2.5	2.2	0.7	3.0	2.7	0.4	3.5	3.1	-	-	-	-	-	-
915	5.0	1.1	2.6	2.4	0.8	3.1	2.8	0.5	3.6	3.2	0.2	4.1	3.7	-	-	-
965	4.0	1.2	2.7	2.5	0.9	3.2	2.9	0.6	3.7	3.3	0.4	4.4	3.9	0.2	5.0	4.5
980	3.5	1.3	2.9	2.6	1.0	3.4	3.0	0.7	3.8	3.4	0.5	4.5	4.0	0.3	5.1	4.6
1015	2.5	1.4	3.0	2.7	1.1	3.6	3.2	0.8	4.0	3.6	0.6	4.7	4.2	0.4	5.4	4.8
1050	1.5	1.5	3.1	2.8	1.2	3.7	3.3	0.9	4.2	3.8	0.7	4.9	4.4	0.5	5.7	5.1
1065	1.0	1.6	3.4	3.0	1.4	3.9	3.5	1.1	4.5	4.0	0.9	5.1	4.6	-	-	-
230/460/575 VOLT AND HIGH SPEED DRIVE																
980	6.0	1.3	2.9	2.6	1.0	3.4	3.0	0.7	3.8	3.4	0.5	4.5	4.0	0.3	5.1	4.6
1045	4.5	1.6	3.2	2.9	1.3	3.8	3.4	1.0	4.4	3.9	0.8	5.0	4.5	0.6	5.6	5.0
1065	4.0	1.7	3.4	3.0	1.4	3.9	3.5	1.1	4.5	4.0	0.9	5.1	4.6	-	-	-
1125	2.5	1.9	3.6	3.2	1.7	4.4	3.9	1.4	5.0	4.5	1.2	5.8	5.2	-	-	-
1170	1.5	2.1	3.9	3.5	1.8	4.7	4.2	1.6	5.5	4.9	-	-	-	-	-	-
1190	1.0	2.2	4.0	3.6	1.9	4.8	4.3	1.7	5.6	5.0	-	-	-	-	-	-

NOTES: 1. Blower performance includes a gas-fired heat exchanger, fixed outdoor air, two-inch T/A filters and a dry evaporator coil.
2. Refer to the additional Static Resistances table.
ESP = External Static Pressure available for the supply and return air duct system. All internal unit resistances have been deducted from the total static pressure of the blower.
* Do NOT close the pulley below 1 turn open.
** Factory setting.

TABLE 28: SUPPLY AIR BLOWER PERFORMANCE (17.5 TON) - GAS HEAT 210 MBH - BOTTOM DUCT CONNECTIONS

BLOWER SPEED, (RPM)	MOTOR PULLEY (TURNS OPEN)*	CFM											
		6000			7000			8000			9000		
		ESP	BHP	KW	ESP	BHP	KW	ESP	BHP	KW	ESP	BHP	KW
208 VOLT AND STANDARD DRIVE													
870	6.0**	1.3	3.6	3.0	0.7	4.3	3.7	0.2	5.1	4.3	-	-	-
900	5.0	1.4	3.8	3.2	0.9	4.7	4.0	0.4	5.6	4.7	-	-	-
930	4.0	1.6	4.1	3.4	1.1	5.0	4.2	0.6	5.9	5.0	0.1	6.7	5.7
950	3.0	1.7	4.2	3.6	1.3	5.1	4.3	0.8	6.0	5.1	0.2	6.9	5.8
980	2.0	1.9	4.5	3.8	1.5	5.4	4.5	1.0	6.3	5.3	0.4	7.2	6.1
995	1.5	2.1	4.6	3.9	1.6	5.5	4.7	1.1	6.4	5.4	0.5	7.5	6.3
1015	1.0	2.2	4.8	4.0	1.7	4.7	4.8	1.2	6.6	5.6	0.7	7.8	6.6
208 VOLT AND HIGH SPEED DRIVE													
950	6.0	1.7	4.2	3.6	1.3	5.1	4.3	0.8	6.0	5.1	0.2	6.9	5.8
980	5.0	1.9	4.5	3.8	1.5	5.4	4.5	1.0	6.3	5.3	0.4	7.2	6.1
995	4.5	2.1	4.5	3.9	1.6	5.5	4.7	1.1	6.4	5.4	0.5	7.5	6.3
1025	3.5	2.3	4.9	4.1	1.8	5.8	4.9	1.3	6.7	5.7	0.7	8.0	6.7
1050	2.5	2.5	5.1	4.3	2.0	6.1	5.1	1.4	7.1	6.0	0.9	8.4	7.0
1065	2.0	2.6	5.3	4.4	2.1	6.3	5.3	1.5	7.3	6.2	1.0	8.6	7.2
1100	1.0	2.9	5.6	4.7	2.3	6.8	5.7	1.8	7.9	6.6	-	-	-
230/460/575 VOLT AND STANDARD DRIVE													
870	6.0**	1.3	3.6	3.0	0.7	4.3	3.7	0.2	5.1	4.3	-	-	-
900	5.0	1.4	3.8	3.2	0.9	4.7	4.0	0.4	5.6	4.7	-	-	-
930	4.0	1.6	4.1	3.4	1.1	5.0	4.2	0.6	5.9	5.0	0.1	6.7	5.7
950	3.5	1.7	4.2	3.6	1.3	5.1	4.3	0.8	6.0	5.1	0.2	6.9	5.8
965	2.5	1.9	4.5	3.8	1.5	5.4	4.5	1.0	6.3	5.3	0.4	7.2	6.1
995	2.0	2.1	4.6	3.9	1.6	5.5	4.7	1.1	6.4	5.4	0.5	7.5	6.3
1015	1.5	2.2	4.8	4.0	1.7	5.7	4.8	1.2	6.6	5.6	0.6	7.8	6.6
1025	1.0	2.3	4.9	4.1	1.8	5.8	4.9	1.3	6.7	5.7	0.7	8.0	6.7
230/460/575 VOLT AND HIGH SPEED DRIVE													
950	6.0	1.7	4.2	3.6	1.3	5.1	4.3	0.8	6.0	5.1	0.2	6.9	5.8
980	5.0	1.9	4.5	3.8	1.5	5.4	4.5	1.0	6.3	5.3	0.4	7.2	6.1
995	4.5	2.1	4.6	3.9	1.6	5.5	4.7	1.1	6.4	5.4	0.5	7.5	6.3
1015	4.0	2.2	4.8	4.0	1.7	5.7	4.8	1.2	6.6	5.6	0.6	7.8	6.6
1025	3.5	2.3	4.9	4.1	1.8	5.8	4.9	1.3	6.7	5.7	0.7	8.0	6.7
1050	3.0	2.5	5.1	4.3	2.0	6.1	5.1	1.4	7.1	6.0	0.9	8.4	7.0
1065	2.5	2.6	5.3	4.4	2.1	6.3	5.3	1.5	7.3	6.2	1.0	8.6	7.2
1100	1.5	2.9	5.6	4.7	2.3	6.8	4.7	1.8	7.9	6.6	-	-	-
1120	1.0	3.1	5.8	4.9	2.5	7.0	5.9	1.9	8.3	6.9	-	-	-

NOTES:
1. Blower performance includes a gas-fired heat exchanger, fixed outdoor air, two-inch T/A filters and a dry evaporator coil.
2. Refer to the additional Static Resistances table.
   ESP = External Static Pressure available for the supply and return air duct system. All internal unit resistances have been deducted from the total static pressure of the blower.
   * Do NOT close the pulley below 1 turn open.
   ** Factory setting.

TABLE 29: SUPPLY AIR BLOWER PERFORMANCE (20 TON) - GAS HEAT 240 MBH - BOTTOM DUCT CONNECTIONS

BLOWER SPEED, (RPM)	MOTOR PULLEY (TURNS OPEN)*	CFM														
		6000			7000			8000			9000			9400		
		ESP	BHP	KW	ESP	BHP	KW	ESP	BHP	KW	ESP	BHP	KW	ESP	BHP	KW
208 VOLT AND STANDARD DRIVE																
870	6.0**	1.3	3.6	3.0	0.7	4.3	3.7	0.2	5.1	4.3	-	-	-	-	-	-
900	5.0	1.4	3.8	3.2	0.9	4.7	4.0	0.4	5.6	4.7	-	-	-	-	-	-
930	4.0	1.6	4.1	3.4	1.1	5.0	4.2	0.6	5.9	5.0	0.1	6.7	5.7	-	-	-
950	3.0	1.7	4.2	3.6	1.3	5.1	4.3	0.8	6.0	5.1	0.2	6.9	5.8	-	-	-
980	2.0	1.9	4.5	3.8	1.5	5.4	4.5	1.0	6.3	5.3	0.4	7.2	6.1	0.1	8.5	7.1
995	1.5	2.1	4.6	3.9	1.6	5.5	4.7	1.1	6.4	5.4	0.5	7.5	6.3	0.2	8.6	7.3
1015	1.0	2.2	4.8	4.0	1.7	4.7	4.8	1.2	6.6	5.6	0.7	7.8	6.6	-	-	-
208 VOLT AND HIGH SPEED DRIVE																
950	6.0	1.7	4.2	3.6	1.3	5.1	4.3	0.8	6.0	5.1	0.2	6.9	5.8	-	-	-
980	5.0	1.9	4.5	3.8	1.5	5.4	4.5	1.0	6.3	5.3	0.4	7.2	6.1	0.1	8.5	7.1
995	4.5	2.1	4.5	3.9	1.6	5.5	4.7	1.1	6.4	5.4	0.5	7.5	6.3	0.2	8.6	7.3
1025	3.5	2.3	4.9	4.1	1.8	5.8	4.9	1.3	6.7	5.7	0.7	8.0	6.7	-	-	-
1050	2.5	2.5	5.1	4.3	2.0	6.1	5.1	1.4	7.1	6.0	0.9	8.4	7.0	-	-	-
1065	2.0	2.6	5.3	4.4	2.1	6.3	5.3	1.5	7.3	6.2	1.0	8.6	7.2	-	-	-
1100	1.0	2.9	5.6	4.7	2.3	6.8	5.7	1.8	7.9	6.6	-	-	-	-	-	-
230/460/575 VOLT AND STANDARD DRIVE																
870	6.0**	1.3	3.6	3.0	0.7	4.3	3.7	0.2	5.1	4.3	-	-	-	-	-	-
900	5.0	1.4	3.8	3.2	0.9	4.7	4.0	0.4	5.6	4.7	-	-	-	-	-	-
930	4.0	1.6	4.1	3.4	1.1	5.0	4.2	0.6	5.9	5.0	0.1	6.7	5.7	-	-	-
950	3.5	1.7	4.2	3.6	1.3	5.1	4.3	0.8	6.0	5.1	0.2	6.9	5.8	-	-	-
965	2.5	1.9	4.5	3.8	1.5	5.4	4.5	1.0	6.3	5.3	0.4	7.2	6.1	0.1	8.5	7.1
995	2.0	2.1	4.6	3.9	1.6	5.5	4.7	1.1	6.4	5.4	0.5	7.5	6.3	0.2	8.6	7.3
1015	1.5	2.2	4.8	4.0	1.7	5.7	4.8	1.2	6.6	5.6	0.6	7.8	6.6	-	-	-
1025	1.0	2.3	4.9	4.1	1.8	5.8	4.9	1.3	6.7	5.7	0.7	8.0	6.7	-	-	-
230/460/575 VOLT AND HIGH SPEED DRIVE																
950	6.0	1.7	4.2	3.6	1.3	5.1	4.3	0.8	6.0	5.1	0.2	6.9	5.8	-	-	-
980	5.0	1.9	4.5	3.8	1.5	5.4	4.5	1.0	6.3	5.3	0.4	7.2	6.1	0.1	8.5	7.1
995	4.5	2.1	4.6	3.9	1.6	5.5	4.7	1.1	6.4	5.4	0.5	7.5	6.3	0.2	8.6	7.3
1015	4.0	2.2	4.8	4.0	1.7	5.7	4.8	1.2	6.6	5.6	0.6	7.8	6.6	-	-	-
1025	3.5	2.3	4.9	4.1	1.8	5.8	4.9	1.3	6.7	5.7	0.7	8.0	6.7	-	-	-
1050	3.0	2.5	5.1	4.3	2.0	6.1	5.1	1.4	7.1	6.0	0.9	8.4	7.0	-	-	-
1065	2.5	2.6	5.3	4.4	2.1	6.3	5.3	1.5	7.3	6.2	1.0	8.6	7.2	-	-	-
1100	1.5	2.9	5.6	4.7	2.3	6.8	4.7	1.8	7.9	6.6	-	-	-	-	-	-
1120	1.0	3.1	5.8	4.9	2.5	7.0	5.9	1.9	8.3	6.9	-	-	-	-	-	

NOTES:
1. Blower performance includes a gas-fired heat exchanger, fixed outdoor air, two-inch T/A filters and a dry evaporator coil.
2. Refer to the additional Static Resistances table.
   ESP = External Static Pressure available for the supply and return air duct system. All internal unit resistances have been deducted from the total static pressure of the blower.
   * Do NOT close the pulley below 1 turn open.
   ** Factory setting.

TABLE 30: SUPPLY AIR BLOWER PERFORMANCE (25 TON) - GAS HEAT 300 MBH - BOTTOM DUCT CONNECTIONS

BLOWER SPEED, (RPM)	MOTOR PULLEY (TURNS OPEN)*	CFM														
		7500			8750			10000			11250			12500		
		ESP	BHP	KW	ESP	BHP	KW	ESP	BHP	KW	ESP	BHP	KW	ESP	BHP	KW
208 VOLT AND STANDARD DRIVE																
975	6.0	1.2	5.9	4.9	5.0	7.3	6.0	-	-	-	-	-	-	-	-	-
1005	5.0	1.4	6.2	5.1	0.7	7.7	6.3	-	-	-	-	-	-	-	-	-
1040	4.0	1.6	6.6	5.4	0.9	8.1	6.7	0.2	9.7	8.0	-	-	-	-	-	-
1070	3.0	1.8	6.9	5.7	1.1	8.5	7.0	0.4	10.2	8.3	-	-	-	-	-	-
1100	2.0	2.0	7.3	6.0	1.3	8.9	7.3	0.6	10.6	8.7	-	-	-	-	-	-
1135	1.0	2.2	7.7	6.3	1.6	9.3	7.6	0.8	11.1	9.1	-	-	-	-	-	-
1165	0.0	2.4	8.0	6.6	1.8	9.7	8.0	1.0	11.6	9.5	0.2	13.5	11.0	-	-	-
208 VOLT AND HIGH SPEED DRIVE																
1140	6.0	2.2	7.7	6.3	1.6	9.4	7.7	0.9	11.2	9.2	-	-	-	-	-	-
1180	5.0	2.5	8.2	6.7	1.9	9.9	8.1	1.2	11.8	9.7	0.3	13.7	11.2	-	-	-
1215	4.0	2.7	8.6	7.0	2.1	10.4	8.5	1.4	12.3	10.1	0.6	14.3	11.7	-	-	-
1255	3.0	3.0	9.1	7.4	2.4	11.0	9.0	1.7	12.9	10.6	0.9	15.0	12.3	-	-	-
1290	2.0	3.2	9.5	7.8	2.7	11.5	9.4	2.0	13.5	11.1	1.2	15.6	12.8	-	-	-
1330	1.0	3.5	10.0	8.2	3.0	12.0	9.9	2.3	14.1	11.6	1.5	16.4	13.4	-	-	-
1365	0.0	3.7	10.5	8.6	3.2	12.6	10.3	2.6	14.7	12.1	1.8	17.0	13.9	-	-	-
230/460/575 VOLT AND STANDARD DRIVE																
975	6.0*	1.4	5.9	4.9	1.0	7.3	6.0	0.5	8.8	7.2	-	-	-	-	-	-
1005	5.0	1.6	6.2	5.1	1.2	7.7	6.3	0.7	9.2	7.6	0.1	10.9	8.9	-	-	-
1040	4.0	1.8	6.6	5.4	1.4	8.1	6.7	0.9	9.7	8.0	0.3	11.4	9.4	-	-	-
1070	3.0	2.0	6.9	5.7	1.6	8.5	7.0	1.1	10.2	8.3	0.6	11.9	9.8	-	-	-
1100	2.0	2.1	7.3	6.0	1.8	8.9	7.3	1.3	10.6	8.7	0.8	12.4	10.2	0.2	14.3	11.7
1135	1.0	2.4	7.7	6.3	2.0	9.3	7.6	1.6	11.1	9.1	1.0	13.0	10.6	0.4	14.9	12.2
1165	0.0	2.6	8.0	6.6	2.2	9.7	8.0	1.8	11.6	9.5	1.3	13.5	11.0	0.7	15.5	12.7
230/460/575 VOLT AND HIGH SPEED DRIVE																
1140	6.0	2.4	7.7	6.3	2.1	9.4	7.7	1.6	11.2	9.2	1.1	13.1	10.7	0.5	15.0	12.3
1180	5.0	2.7	8.2	6.7	2.3	9.9	8.1	1.9	11.8	9.7	1.4	13.7	11.2	0.8	15.8	12.9
1215	4.0	2.9	8.6	7.0	2.6	10.4	8.5	2.2	12.3	10.1	1.7	14.3	11.7	1.1	16.4	13.5
1255	3.0	3.2	9.1	7.4	2.9	11.0	9.0	2.5	12.9	10.6	2.0	15.0	12.3	1.4	17.2	14.1
1290	2.0	3.4	9.5	7.8	3.1	11.5	9.4	2.7	13.5	11.1	2.2	15.6	12.8	-	-	-
1330	1.0	3.7	10.0	8.2	3.4	12.0	9.9	3.0	14.1	11.6	2.6	16.4	13.4	-	-	-
1365	0.0	3.9	10.5	8.6	3.7	12.6	10.3	3.3	14.7	12.1	2.9	17.0	13.9	-	-	-

NOTES:
1. Blower performance includes a gas-fired heat exchanger, fixed outdoor air, two-inch T/A filters and a dry evaporator coil.
2. Refer to the additional Static Resistances table.

ESP = External Static Pressure available for the supply and return air duct system. All internal unit resistances have been deducted from the total static pressure of the blower.

* Do NOT close the pulley below 1 turn open.

** Factory setting.

TABLE 31: BLOWER MOTOR AND DRIVE DATA

MODEL SIZE	DRIVE	BLOWER RANGE (RPM)	MOTOR[1]			ADJUSTABLE MOTOR PULLEY				FIXED BLOWER PULLEY				BELT (NOTCHED)		
			HP	FRAME	EFF. (%)	DESIG-NATION	OUTSIDE DIA. (IN.)	PITCH DIA. (IN.)	BORE (IN.)	DESIG-NATION	OUTSIDE DIA. (IN.)	PITCH DIA. (IN.)	BORE (IN.)	DESIG-NATION	PITCH LENGTH (IN.)	QTY.
15 TON	Standard	850/1065	5	184 T	83	1VP56	5.35	4.3-5.3[2]	1-1/8	BK90	8.75	8.4	1	BX81	82.8	1
	High Speed Access	965/1190								BK80	7.75	7.4	1	BX78	79.8	1
17.5 & 20 TON	Standard	870/1025	7.5	213 T	89	1VP68	6.75	5.5-6.5[2]	1-3/8	BK120	11.75	11.4	1-3/16	BX83	84.8	1
	High Speed Access	950/1120								BK110	10.75	10.4	1-3/16	BX81	82.8	1
25 TON	Standard	975/1165	15	254 T	91	1VP75X	7.5	6.2-7.4[2]	1-5/8	1B5V110	11.3	11.1	1-7/16	5VX860	86.0	1
	High Speed Access	1140/1365								1B5V94	9.7	9.5	1-7/16	5VX840	84.0	1

1. All motors have a nominal speed of 1800 RPM, a 1.15 service factor and a solid base. They can operate to the limit of their service factor because they are located in the moving air, upstream of any heating device.
2. Do NOT close this pulley below 1 turn open.

TABLE 32: STATIC RESISTANCES[1]

DESCRIPTION		RESISTANCE, IWG											
		CFM											
		15 TON			17.5 TON			20 TON			25 TON		
		4500	6000	7200	6000	7500	9000	6000	8000	9400	7500	10000	12500
WET INDOOR COIL		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.11	0.11	0.11
ELECTRIC HEAT OPTIONS	18 KW	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.31	0.56	0.87
	36 KW	0.1	0.2	0.3	0.1	0.2	0.3	0.1	0.2	0.3	0.38	0.68	1.07
	54 KW	0.2	0.3	0.4	0.2	0.3	0.4	0.2	0.3	0.4	0.62	1.10	1.72
	72 KW	0.2	0.4	0.6	0.2	0.4	0.6	0.2	0.4	0.6	0.68	1.21	1.90
ECONOMIZER OPTION		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.06	0.11	0.18
HORIZONTAL DUCT CONNECTIONS[2]		0.1	0.2	0.3	0.2	0.3	0.5	0.2	0.3	0.5	0.36	0.32	0.46

1. Deduct these resistance values from the available external static pressures shown in the respective Blower Performance Table (See Note 2 for exception.)
2. Since the resistance to air flow will be less for horizontal duct connections than for bottom duct connections, add these pressures to the ESP values on the respective unit's blower performance table.

TABLE 33: POWER EXHAUST PERFORMANCE

MOTOR SPEED[1]	STATIC RESISTANCE OF RETURN DUCTWORK, IWG									
	0.2		0.3		0.4		0.5		0.6	
	CFM	kW	CFM	kW	CFM	kW	CFM	kW	CFM	kW
HIGH[2]	5250	0.83	4500	0.85	4200	0.88	3750	0.93	3000	0.99
MEDIUM	4900	0.77	3900	0.79	3500	0.82	2900	0.85	-	-
LOW	4400	0.72	3700	0.74	3000	0.78	-	-	-	-

1. Power exhaust motor is a 3/4 HP, PSC type with sleeve bearings, a 48 frame and inherent protection.
2. The factory setting.

TABLE 34: DJ ELECTRICAL DATA

Model Tonnage	Voltage	Compressors		OD Fan Motors FLA Each	ID Blower Motor FLA	Heater kW	Minimum Circuit Ampacity Amps	Max Fuse Size Amps
		RLA Each	LRA Each					
15	208	21.8	184	2.1	15.4	~	72.9	90
						13.5	72.9	90
						27.0	112.9	125
						40.6	160.1	175
						54.1	169.1	200
	230	21.8	184	2.1	14.4	~	71.9	90
						18.0	72.1	90
						36.0	126.3	150
						54.0	147.9	175
						72.0	191.2	225
	460	11	90	1.1	7.2	~	36.4	45
						18.0	36.4	45
						36.0	63.1	70
						54.0	74	90
						72.0	95.6	110
	575	9.6	73	0.9	5.9	~	31.1	40
						18.0	31.1	40
						36.0	50.7	60
						54.0	59.3	70
						72.0	76.7	90
17.5	208	25.6	225	2.1	20	~	86.0	110
						13.5	86.0	110
						27.0	118.7	125
						40.6	165.9	175
						54.1	175.2	200
	230	25.6	225	2.1	20	~	86.0	110
						18.0	86.0	110
						36.0	133.3	150
						54.0	154.9	175
						72.0	198.2	225
	460	12.8	114	1.1	10	~	43.2	50
						18.0	43.2	50
						36.0	66.6	70
						54.0	77.5	90
						72.0	99.1	110
	575	10.3	80	0.9	8.2	~	35.0	45
						18.0	35.0	45
						36.0	53.6	60
						54.0	62.2	70
						72.0	79.5	90
20	208	33.6	225	3.7	20	~	110.4	125
						13.5	110.4	125
						27.0	118.7	125
						40.6	165.9	175
						54.1	175.2	200
	230	33.6	225	3.7	20	~	110.4	125
						18.0	110.4	125
						36.0	133.3	150
						54.0	154.9	175
						72.0	198.2	225
	460	17.3	114	1.9	10	~	56.5	70
						18.0	56.5	70
						36.0	66.6	70
						54.0	77.5	90
						72.0	99.1	110
	575	13.5	80	1.5	8.2	~	44.6	50
						18.0	44.6	50
						36.0	53.6	60
						54.0	62.2	70
						72.0	79.5	90
25	208	47.1	245	3.7	38.6	~	159.4	200
						13.5	159.4	200
						27.0	159.4	200
						40.6	189.1	200
						54.1	198.4	225
	230	47.1	245	3.7	38.6	~	159.4	200
						18.0	159.4	200
						36.0	159.4	200
						54.0	178.2	200
						72.0	221.5	250
	460	19.6	125	1.9	19.3	~	71.0	90
						18.0	71.0	90
						36.0	78.3	90
						54.0	89.1	100
						72.0	110.7	125
	575	15.8	100	1.5	15.4	~	57.0	70
						18.0	57.0	70
						36.0	62.6	70
						54.0	71.2	80
						72.0	88.5	100

TABLE 35: DJ VOLTAGE LIMITATIONS[1]

VOLTAGE LIMITATIONS			
	POWER SUPPLY	VOLTAGE	
		MIN.	MAX.
VOLTAGE LIMITATIONS	208/230-3-60	187	253
	460-3-60	414	506
	575-3-60	518	630

1. Utilization Range “A” in accordance with ARI Standard 110.

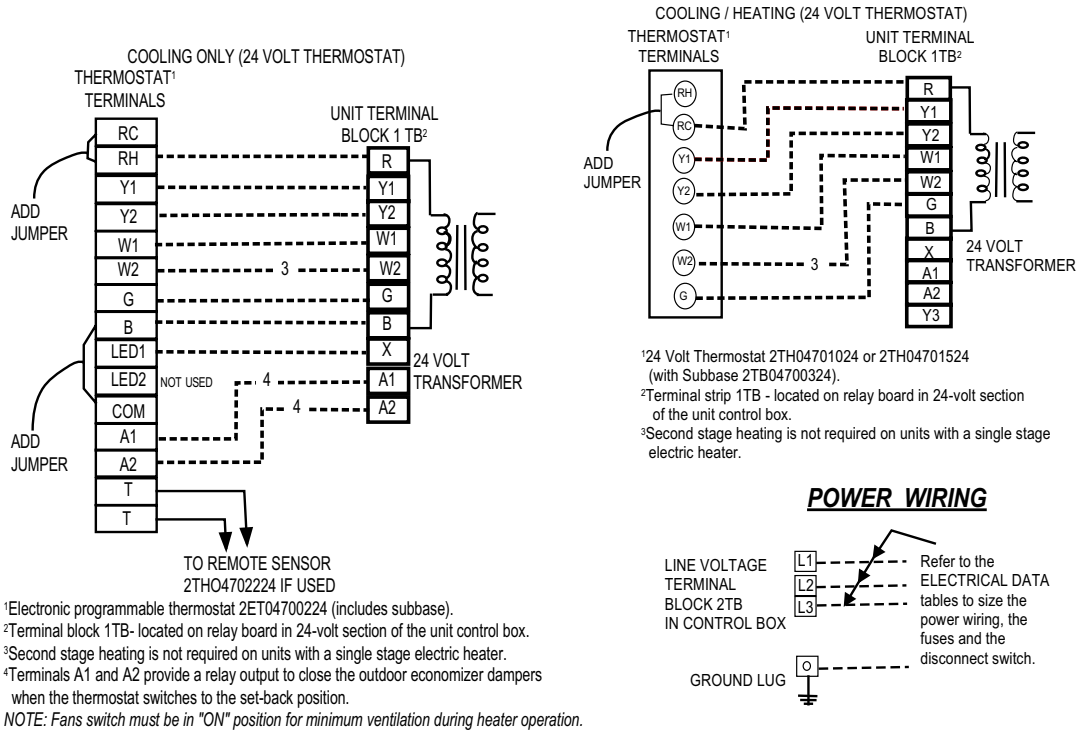
TABLE 36: PHYSICAL DATA

MODELS				DJ 180	DJ 210	DJ 240	DJ 300
EVAPORATOR BLOWER	CENTRIFUGAL BLOWER (Dia.x Wd.)			15x15	18x15	18x15	18x15
	FAN MOTOR HP			5.0	7.5	7.5	15
EVAPORATOR COIL	ROWS DEEP			4			
	FINS PER INCH			13.5			
	FACE AREA (Sq. Ft.)			25			
CONDENSER FAN (Four Per Unit)	PROPELLER DIA. (In.) (Each)			24	24	30	30
	FAN MOTOR HP (Each)			1/3	1/3	3/4	3/4
	NOM. CFM TOTAL (Each)			4,000	4,000	5,000	5,000
CONDENSER COIL	ROWS DEEP			1	2		
	FINS PER INCH			20	20		
	FACE AREA (Sq. Ft.)			63.8	63.8		
COMPRESSOR (Qty. Per Unit)	SCROLL			2			
FILTERS	QUANTITY PER UNIT (12" X 24" X 2")			12			
	TOTAL FACE AREA (Sq. Ft.)			24			
CHARGE	REFRIGANT 22 (Lb./Oz.)	SYSTEM No.1		24/0	24/0	23/8	23/8
		SYSTEM No.2		24/0	24/0	23/8	23/8
OPERATING WEIGHTS (LBS.)	BASIC UNIT	COOLING ONLY		2140	2540	2560	2660
		GAS / ELECTRIC	N24	2340	2740	2760	2860
			N32	2380	2780	2800	2900
	OPTIONS	ECONOMIZER		160			
		ECONOMIZER WITH POWER EXHAUST		245			
		MOTORIZED DAMPER		150			
		ELECTRIC HEATER	18 KW	25			
			36 KW	30			
			54 KW	35			
			72 KW	40			
	ACCESSORIES	ROOF CURB		185			
		BAROMETRIC DAMPER		45			
		ECONOMIZER / MOTORIZED DAMPER RAIN HOOD		55			
		ECONOMIZER / POWER EXHAUST RAIN HOOD		90			
		WOOD SKID		220			

TABLE 37: ELECTRIC HEAT CORRECTION FACTORS

NOMINAL VOLTAGE	VOLTAGE	kW CAP. MULTIPLIER
208	208	1.00
240	230	0.92
480	460	0.92
600	575	0.92

CONTROL WIRING



[1]Electronic programmable thermostat 2ET04700224 (includes subbase).
[2]Terminal block 1TB- located on relay board in 24-volt section of the unit control box.
[3]Second stage heating is not required on units with a single stage electric heater.
[4]Terminals A1 and A2 provide a relay output to close the outdoor economizer dampers when the thermostat switches to the set-back position.
NOTE: Fans switch must be in "ON" position for minimum ventilation during heater operation.

[1]24 Volt Thermostat 2TH04701024 or 2TH04701524 (with Subbase 2TB04700324).
[2]Terminal strip 1TB - located on relay board in 24-volt section of the unit control box.
[3]Second stage heating is not required on units with a single stage electric heater.

POWER WIRING

LINE VOLTAGE TERMINAL BLOCK 2TB IN CONTROL BOX
L1
L2
L3
Refer to the ELECTRICAL DATA tables to size the power wiring, the fuses and the disconnect switch.
GROUND LUG

FIGURE 2: DJ FIELD WIRING DIAGRAM

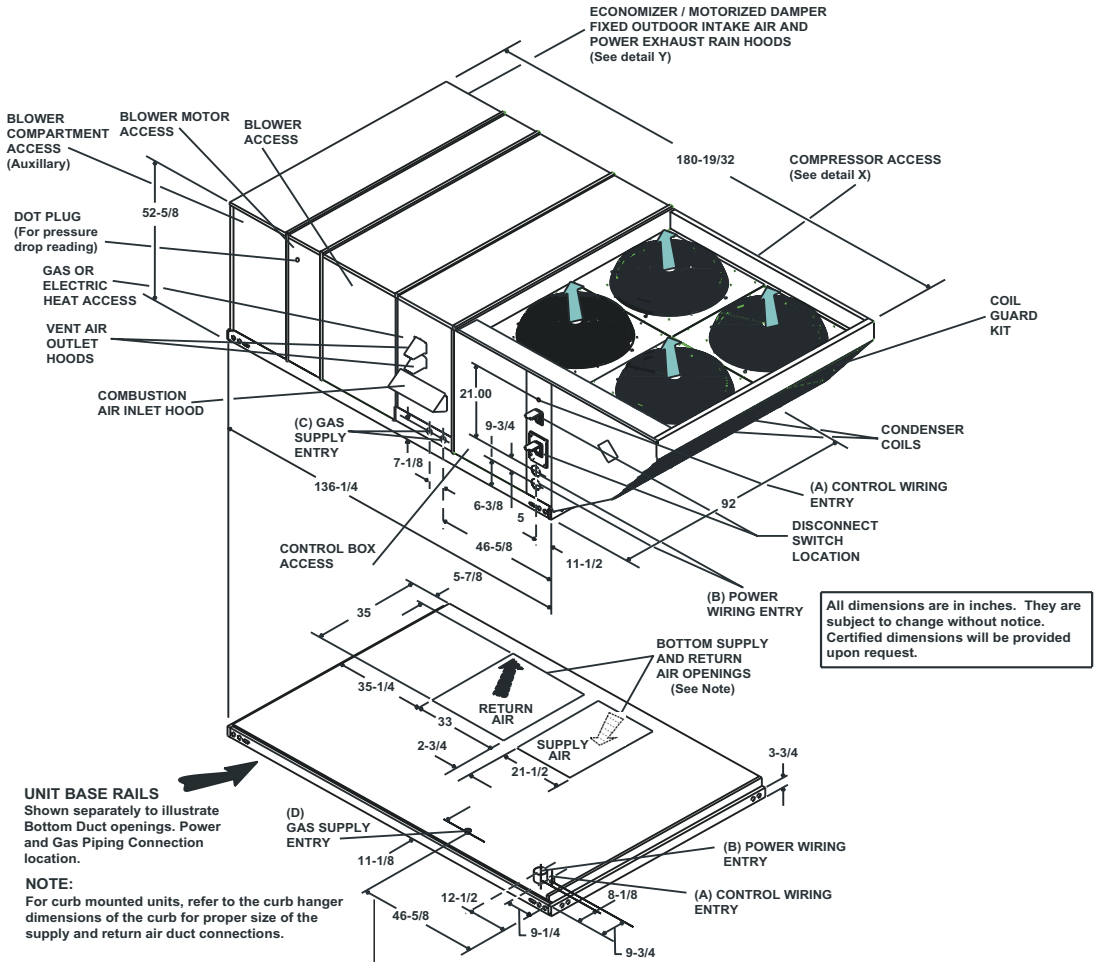


FIGURE 3: UNIT DIMENSIONS DJ180, 210, 240 & 300 (FRONT VIEW)

TABLE 38: MINIMUM CLEARANCES

LOCATION	CLEARANCE
Front	36”
Back	24” (Less Economizer) 49” (With Economizer)
Left Side (Filter Access)	24” (Less Economizer) 36” (With Economizer)
Right Side (Cond. Coil)	36”
Below Unit[1]	0”
Above Unit[2]	72” With 36” Maximum Horizontal Overhang (For Condenser Air Discharge)

1. Units may be installed on combustible floors made from wood or class A, B, or C roof covering material.
2. Units must be installed outdoors. Overhanging structures or shrubs should not obstruct condenser air discharge outlet.

NOTE: A 1” clearance must be provided between any combustible material and the supply air ductwork for a distance of 3 feet from the unit.

NOTE: The products of combustion must not be allowed to accumulate within a confined space and recirculate.

TABLE 39: UTILITIES ENTRY

HOLE	OPENING SIZE (DIA.)	USED FOR	
A	1-1/8” KO	Control Wiring	Front
	3/4” NPS (Fem.)		Bottom
B	3-5/8” KO	Power Wiring	Front
	3” NPS (Fem.)		Bottom
C	2-3/8” KO	Gas Piping (Front)[1]	
D	1-11/16” Hole	Gas Piping (Bottom)[1,2]	

1. One-inch Gas Piping MPT Required.
2. Opening in the bottom to the unit can be located by the side in the insulation.

NOTE: Locate unit so that the vent air outlet hood is at least:

- Three (3) feet above any force air inlet located within 10 horizontal feet (excluding those integral to the unit).
- Four (4) feet below, 4 horizontal feet from, or 1 foot above any door or gravity air inlet into the building.
- Four (4) feet from electric and gas meters, regulators and relief equipment.

NOTE: All entry holes should be field sealed to prevent rain water entry into building.

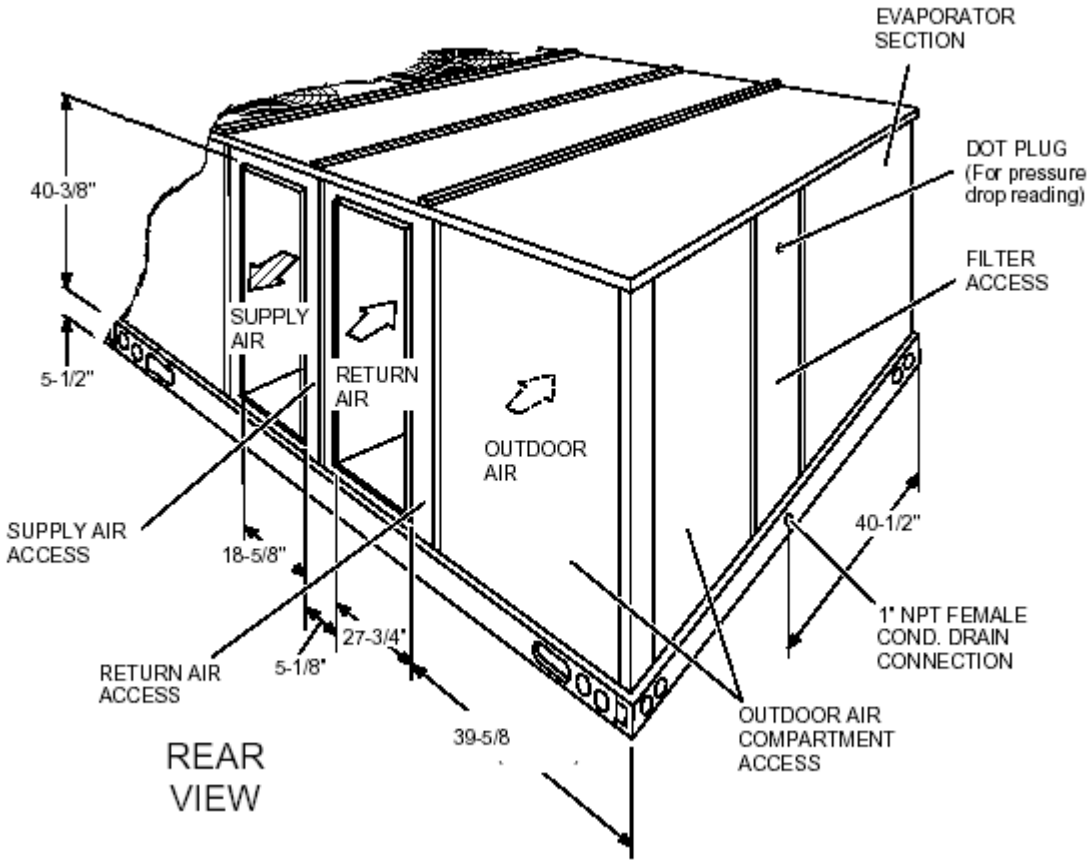


FIGURE 4: UNIT DIMENSIONS (REAR VIEW)

NOTE: Units are shipped with the bottom duct openings ocovered. An accessory flange kit is available for connecting side ducts.

For *bottom* duct applications:

1. Remove the side panels from the supply and return air compartments to gain access to the bottom supply and return air duct covers.
2. Remove and discard the bottom duct covers. Duct openings are closed with sheet metal covers except when the unit includes a power exhaust option. The covering consists of a heavy black paper composition.
3. Replace the side supply and return air compartment panels.

For *side* duct application:

1. Replace the side panels on the supply and return air compartments with the accessory flange kit panels.
2. Connect ductwork to the duct flanges on the rear of the unit.

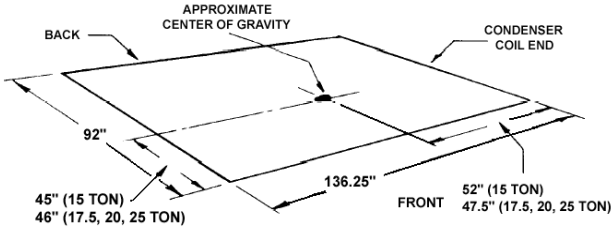


FIGURE 5: UNIT CENTER OF GRAVITY

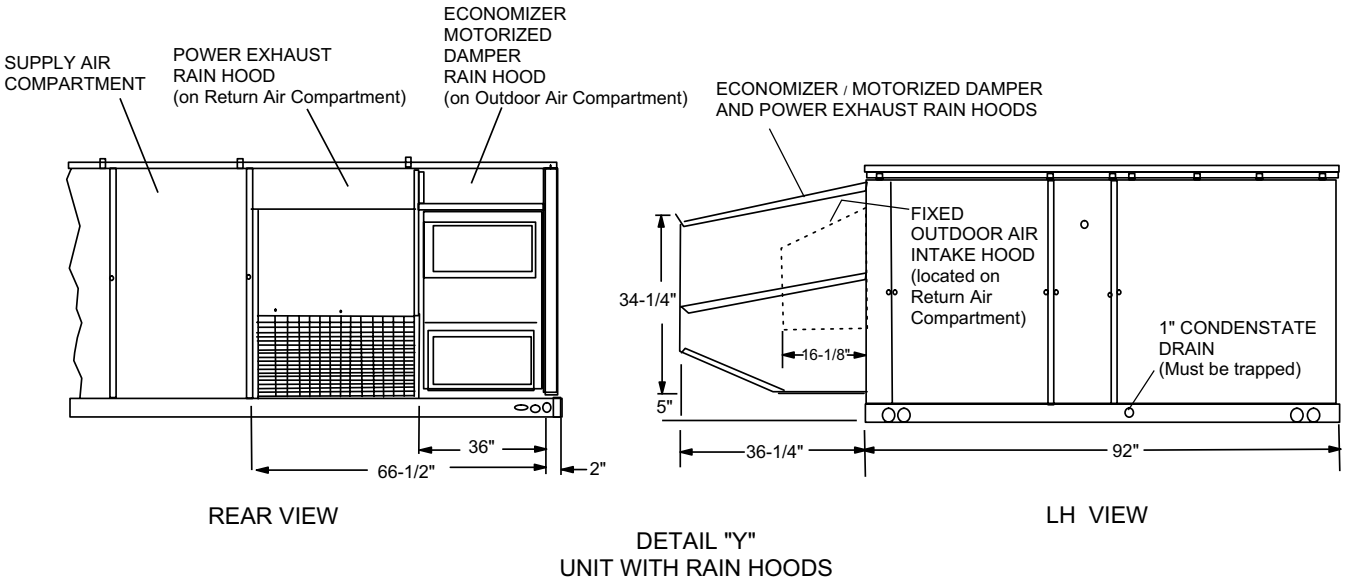


FIGURE 6: UNIT DIMENSIONS DJ180, 210, 240 & 300 (RAINHOOD)

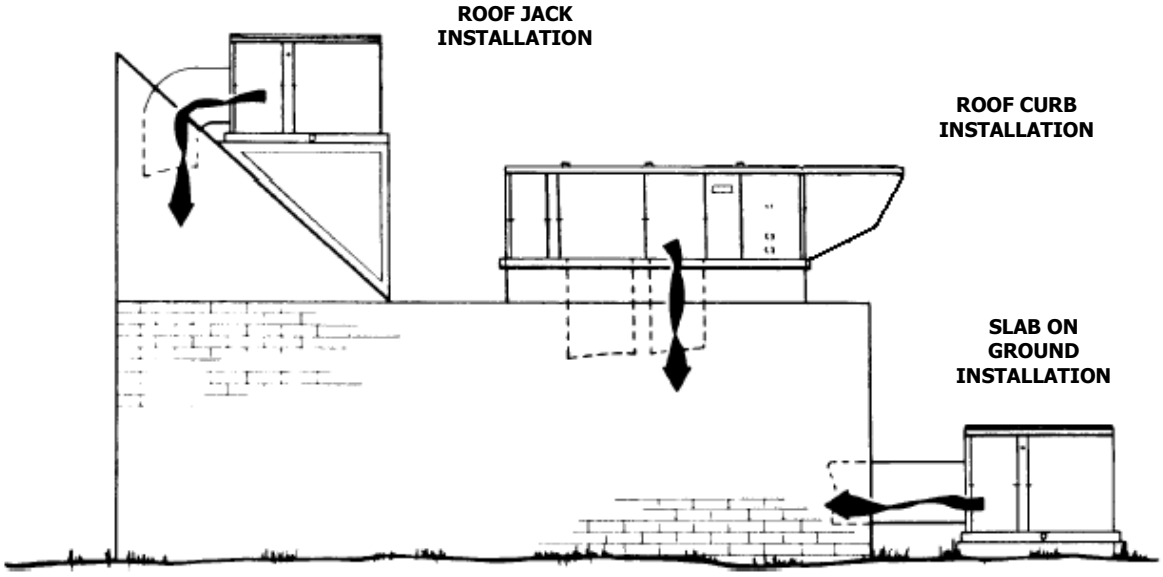


FIGURE 7: TYPICAL UNIT APPLICATIONS

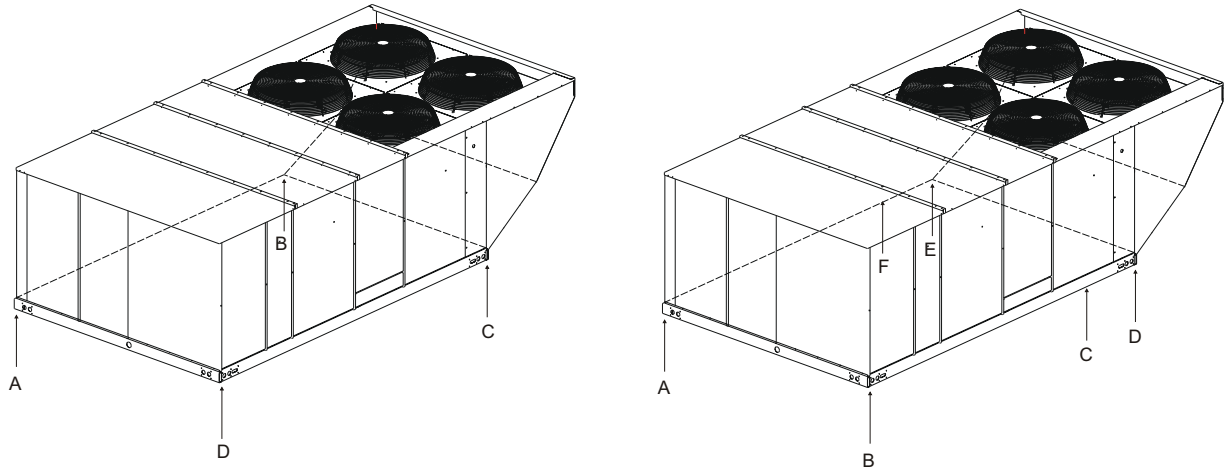


FIGURE 8: FOUR AND SIX POINT LOADS

TABLE 40: FOUR AND SIX POINT LOADS

Unit Size	Total Shipping Weight	4 Point Loads (lbs)			
		A	B	C	D
180 Gas	2540	474	768	802	495
210 Gas	2928	510	954	954	510
240 Gas	2960	516	964	964	516
300 Gas	3046	531	992	992	531
180 Elec	2340	437	708	739	456
210 Elec	2728	476	888	888	476
240 Elec	2760	481	899	899	481
300 Elec	2846	496	927	927	496

Unit Size	Total Shipping Weight	6 Point Loads (lbs)					
		A	B	C	D	E	F
180 Gas	2540	316	330	433	535	512	414
210 Gas	2928	340	340	488	636	636	488
240 Gas	2960	344	344	493	643	643	493
300 Gas	3046	354	354	508	661	661	508
180 Elec	2340	291	304	398	493	472	382
210 Elec	2728	317	317	455	592	592	455
240 Elec	2760	321	321	460	599	599	460
300 Elec	2846	331	331	474	618	618	474

NOTE: These weights are with economizer, and high option heat (gas or electric)

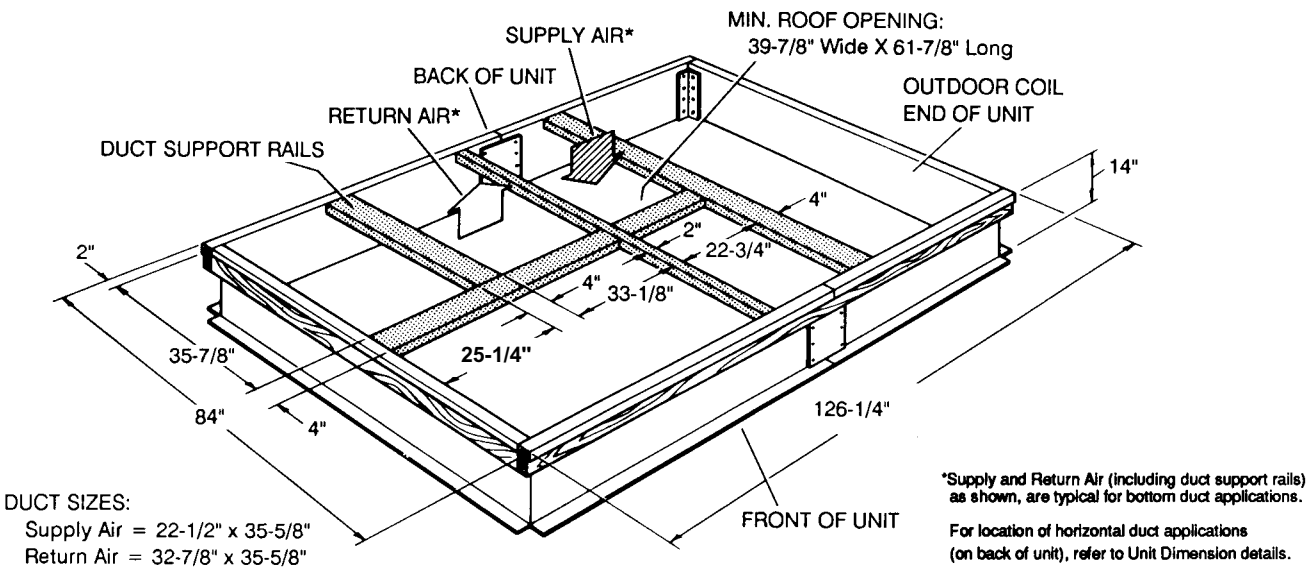


FIGURE 9: UNIT ROOF CURB DIMENSIONS

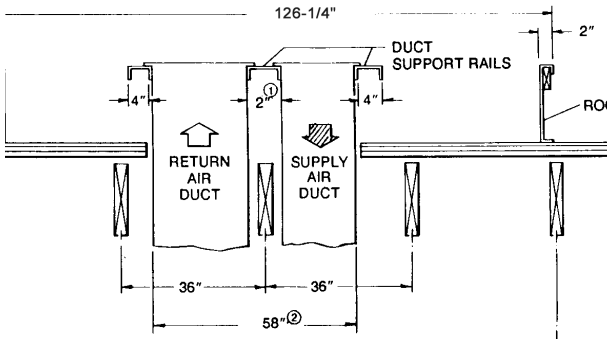


FIGURE 10: ROOF CURB DUCT OPENINGS DIMENSION

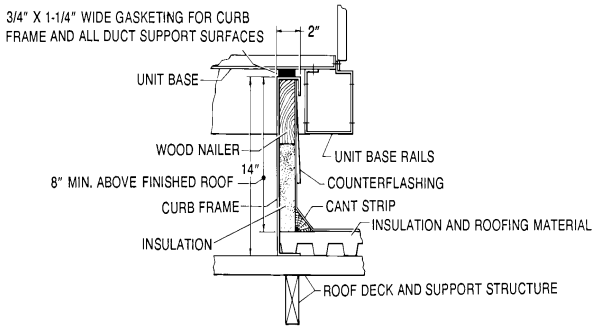
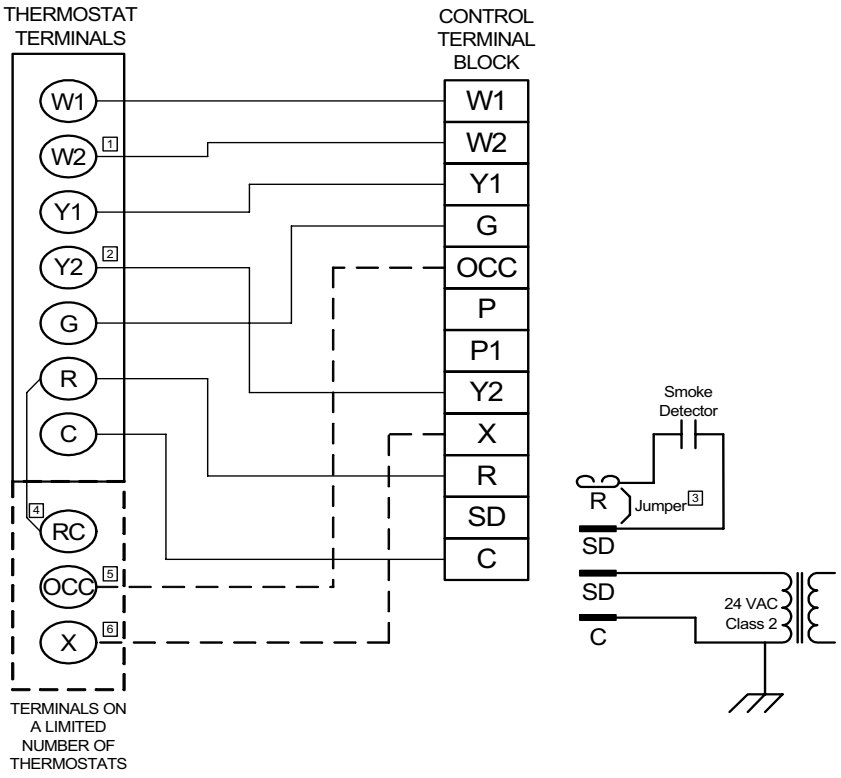


FIGURE 11: CUT AWAY OF ROOF CURB

1. The 2” space between the ducts allows for “jumping” an existing roof joist.
2. The 58-1/2” overall dimension of the ducts allows duct-work penetration between roof joists that are spaced on 72” centers.

NOTE: Ducts can be installed into the curb from the roof. All electrical and gas line connections can be made inside the curb.



1 Second stage heating not required on single stage heating units.

2 Second stage cooling not required on single stage cooling units.

3 Jumper is required if there is no Smoke Detector circuit.

4 Jumper is required for any combination of R, RC, or RH.

5 OCC is an output from the thermostat to indicate the Occupied condition.

6 X is an input to the thermostat to display Error Status conditions.

FIGURE 12: SIMPLICITY CONTROL WIRING DIAGRAM

GUIDE SPECIFICATIONS

GENERAL

Units shall be manufactured by York International Unitary Products Group in an ISO 9001 certified facility.

York's Sunline Magnum™ units are convertible single package units. All models have dual independent refrigerant circuits for efficient part load operation and maximum comfort control. Although the units are primarily designed for curb mounting on a roof, they can also be slab-mounted at ground level or set on steel beams above a finished roof. Cooling only, cooling with gas heat and cooling with electric heat models are available with a wide variety of factory-mounted options and field-installed accessories to make them suitable for almost every application. All units are self-contained and assembled on full perimeter base rails with holes in the four corners for overhead rigging. Every unit is completely piped, wired, charged and tested at the factory to simplify the field installation and to provide years of dependable operation. All models (including those with an economizer) are suitable for either bottom or horizontal duct connections. Models with power exhaust are suitable for bottom duct connections only. For bottom duct, remove the sheet metal panels from the supply and return air openings through the base of the unit. For horizontal duct, replace the supply and return air panels on the rear of the unit with a side duct flange accessory. All supply air blowers are equipped with a belt drive that can be adjusted to meet the exact requirements of the job.

Each unit shall have 4 condenser fan motors. A high speed drive accessory is available for applications with a higher CFM and/or static pressure requirement. All compressors include crankcase heat and internal pressure relief. Every refrigerant circuit includes an expansion valve, a liquid line filter-drier, a discharge line high pressure switch and a suction line with a freezestat and low pressure/loss of charge switch. The unit control circuit includes a 75 VA transformer, a 24-volt circuit breaker and a relay board with two compressor lockout circuits, a terminal strip for thermostat wiring, plus an additional set of pin connectors to simplify the interface of additional field controls. All units have long lasting powder paint cabinets with 750 hour salt spray test approval under ASTM-B117 procedures. All 208/230 and 460-volt models are ETL approved. All 208/230 and 575-volt models are CGA approved. All models include a 1-year limited warranty on the complete unit. Compressors and electric heater elements carry an additional 4-year warranty. Aluminized steel tubular heat exchangers carry an additional 9-year warranty.

DESCRIPTION

Units shall be factory-assembled, single packaged, DJ***N Electric Cooling/Gas Heat, DJ***C/E Electric Cooling/ Optional Electric Heat, designed for outdoor mounted installation. The 15,17.5, and 20 ton units shall have minimum EER ratings of 11.1. The 25 ton unit shall have a minimum EER rating of 10.5.

They shall have built-in field convertible duct connections for down discharge supply/return or horizontal discharge supply/ return, and be available with factory installed options or field installed accessories. The units shall be factory wired, piped, charged with R-22 refrigerant and factory tested prior to shipment. All unit wiring shall be both numbered and color coded. All units shall be manufactured in a facility certified to ISO 9001 standards and the cooling performance shall be rated in accordance with DOE and ARI test procedures. Units shall be ETL & CGA listed, classified to ANSIZ21.47 standards, UL 1995/CAN/CSA No. 236-M90 conditions.

UNIT CABINET

Unit cabinet shall be constructed of G90 galvanized steel, with exterior surfaces coated with a non-chalking, powdered paint finish, certified at 750 hours salt spray test per ASTM-B117 standards. Indoor blower section shall be insulated with a minimum 1/2" thick insulation, coated on the airside. Aluminum foil faced insulation shall be used in the furnace compartment and be fastened with ridged fasteners to prevent insulation from entering the air stream. Cabinet panels shall be "large" size, easily removable for servicing and maintenance. Full perimeter base rails shall be provided to assure reliable transit of equipment, overhead rigging and proper sealing on roof curb applications. Disposable 2" filters shall be furnished and be accessible through a removable access door, sealed airtight. Units filter track shall be designed to accommodate either 1" or 2" filters. Fan performance measuring ports shall be provided on the outside of the cabinet to allow accurate air measurements of evaporator fan performance without removing panels or creating air by-pass of the coils. Condensate pan shall be internally sloped and conform to ASHRAE 62-89 self-draining standards. Condensate connection shall be a minimum of 1" I.D. female and be a ridged mount connection. Unit shall incorporate a fixed outdoor air damper with an outdoor air intake opening covered with a bird screen and a rain hood painted to match the exterior of the unit.

INDOOR (EVAPORATOR) FAN ASSEMBLY

Fan shall be a belt drive assembly and include an adjustable-pitch motor pulley. Job site selected (B.H.P.) brake horsepower shall not exceed the motors nameplate horsepower rating, plus the service factor. Units shall be designed not to operate above service factor. Fan wheel shall be double-inlet type with forward-curved blades, dynamically balanced to operate smoothly throughout the entire range of operation. Airflow design shall be constant air volume. Bearings shall be sealed and permanently lubricated for longer life and no maintenance.

OUTDOOR (CONDENSER) FAN ASSEMBLY

The outdoor fans shall be of the direct-driven propeller type, discharge air vertically, have aluminum blades riveted to corrosion resistant steel spider brackets and shall be dynamically balanced for smooth operation. The 4 outdoor fan motors shall be totally enclosed with permanently lubricated

bearings, internally protected against overload conditions and staged independently.

REFRIGERANT COMPONENTS

Compressors:

a. Shall be Scroll compressors internally protected with internal high-pressure relief and over temperature protection.

b. Shall have internal spring isolation and sound muffling to minimize vibration and noise, and be externally isolated on a dedicated, independent mounting.

Coils:

a. Evaporator and condenser coils shall have aluminum plate fins mechanically bonded to seamless internally enhanced copper tubes with all joints brazed. Special Phenolic coating shall be available as a factory option.

b. Evaporator and Condenser coils shall be of the direct expansion, draw-thru, design.

Refrigerant Circuit and Refrigerant Safety Components shall include:

a. Balance-port thermostatic expansion valve with independent circuit feed system.

b. Filter drier/strainer to eliminate any moisture or foreign matter.

c. Accessible service gage connections on both suction and discharge lines to charge, evacuate, and measure refrigerant pressure during any necessary servicing or troubleshooting, without losing charge.

d. The refrigeration system shall provide at least 15° F of sub-cooling at design conditions.

e. All models shall have two independent circuits.

UNIT CONTROLS

a. Unit shall be complete with self-contained low-voltage control circuit protected by a resetable circuit breaker on the 24-volt transformer side.

b. Unit shall incorporate a lockout circuit which provides reset capability at the space thermostat or base unit, should any of the following standard safety devices trip and shut off compressor.

c. Loss-of-charge/Low-pressure switch.

1. High-pressure switch.

2. Freeze-protection thermostat, evaporator coil. If any of the above safety devices trip, a LED (light-emitting diode) indicator shall flash a diagnostic code that indicates which safety switch has tripped.

d. Unit shall incorporate "AUTO RESET" compressor over temperature, over current protection.

e. Unit shall operate with conventional thermostat designs and have a low voltage terminal strip for easy hook-up.

f. Unit control board shall have on-board diagnostics and fault code display.

g. Standard controls shall include anti-short cycle and low voltage protection, and permit cooling operation down to 0 °F.

h. Control board shall monitor each refrigerant safety switch independently.

i. Control board shall retain last 5 fault codes in non volatile memory, which will not be lost in the event of a power loss.

GAS HEATING SECTION (DJ*N MODELS)**

Shall be designed with induced draft combustion with post purge logic and energy saving direct spark ignition, redundant main gas valve. Ventor wheel shall be constructed of stainless steel for corrosion resistance. The heat exchanger shall be of the tubular type, constructed of T1-40 aluminized steel for corrosion resistance and allowing minimum mixed air entering temperature of 25° F. Burners shall be of the in-shot type, constructed of aluminum coated steel and contain air mixture adjustments. All gas piping shall enter the unit cabinet at a single location through either the side or curb, without any field modifications. An integrated control board shall provide timed control of evaporator fan functioning and burner ignition. Heating section shall be provided with the following minimum protection:

a. Primary and auxiliary high-temperature limit switches.

b. Induced draft motor speed sensor.

c. Flame roll out switch (automatic reset).

d. Flame proving controls. Unit shall have two independent stages of capacity.

ELECTRIC HEATING (DJ*C/E MODELS)**

Nickel chromium electric heating elements shall be provided as required by the application with 1 or 2 stage control, as required, from 13.5 KW to 72 KW capacities. The heating section shall have a primary limit control(s) and automatic reset to prevent the heating element system from operating at an excessive temperature. Units with Electric Heating shall be wired for a single point power supply with branch circuit fusing (where required).

UNIT OPERATING CHARACTERISTICS

Unit shall be capable of starting and running at 125° F outdoor temperature, exceeding maximum load criteria of ARI Standard 210/240. The compressor, with standard controls, shall be capable of operation down to 25° F outdoor temperature. Accessory low ambient kit shall be available for operation to 0° F. Unit shall be provided with fan time delay to prevent cold air delivery before heat exchanger warms up (Gas heat only).

ELECTRICAL REQUIREMENTS

All unit power wiring shall enter unit cabinet at a single factory provided location and be capable of side or bottom entry, to minimize roof penetrations and avoid unit field modifications. Separate side and bottom openings shall be provided for the control wiring.

STANDARD LIMITED WARRANTIES

- Compressor 5 Years
- Heat Exchanger 10 Years
- Electric Heat Element 5 Years
- Other Parts 1 Year

OPTIONAL OUTDOOR AIR (Shall be made available by either/or):

- **ELECTRONIC ENTHALPY AUTOMATIC ECONOMIZER** - Outdoor and return air dampers that are interlocked and positioned by a fully-modulating, spring-return damper actuator. The maximum leakage rate for the outdoor air intake dampers shall not exceed 2% when dampers are fully closed and operating against a pressure differential of 0.5 IWG. A unit-mounted potentiometer shall be provided to adjust the outdoor and return air damper assembly to take in CFM of outdoor air to meet the minimum ventilation requirement of the conditioned space during normal operation. During economizer operation, a mixed-air temperature control shall modulate the outdoor and return air damper assembly to prevent the supply air temperature from dropping below 55°F. Changeover from compressor to economizer operation shall be provided by an integral electronic enthalpy control that feeds input into the basic module. The outdoor intake opening shall be covered with a rain hood that matches the exterior of the unit. Water eliminator/filters shall be provided. Simultaneous economizer/compressor operation is also possible. Dampers shall fully close on power loss.
- **MOTORIZED OUTDOOR AIR DAMPERS** - Outdoor and return air dampers that are interlocked and positioned by a 2-position, spring-return damper actuator. The maximum leakage rate for the outdoor air intake dampers shall not exceed 2% when dampers are fully closed and operating against a pressure differential of 0.5 IWG. A unit-mounted potentiometer shall be provided to adjust the outdoor and return air damper assembly to take in the design CFM of outdoor air to meet the ventilation requirements of the conditioned space during normal operation. Whenever the indoor fan motor is energized, the dampers open up to one of two pre-selected positions - regardless of the outdoor air enthalpy. Dampers return to the fully closed position when the indoor fan motor is de-energized. Dampers shall fully close on power loss.

OTHER PRE-ENGINEERED ACCESSORIES AVAILABLE

- **ROOF CURB** - 14" high, full perimeter curb with wood nailer (shipped knocked-down).
- **100% BAROMETRIC RELIEF DAMPER** - Contains a rain hood, air inlet screen, exhaust damper and mounting hardware. Used to relieve internal air pressure through the unit.
- **PROPANE CONVERSION KIT** - Contains new orifices and gas valve parts to convert from natural to L.P. gas. One per unit required.
- **HIGH ALTITUDE - NATURAL GAS** - Contains orifices required for applications between 2000 and 6000 feet altitude.
- **HIGH ALTITUDE - PROPANE GAS** - Contains orifices required for applications between 2000 and 6000 feet altitude. Must be used with propane conversion kit.
- **BURGLAR BARS** - Designed to work with above roof curbs, depending on unit model. Fits duct openings of curb supply and return air openings.
- **SIDE DUCT FLANGE** - Supply and return air duct flanges for side duct applications. Do not use on units with power exhaust.
- **HIGH SPEED DRIVE** - Includes blower pulley and belt for higher CFM and/or static pressure requirements.
- **WOOD SKID** - Allows unit to be handled with 90" forks.
- **ECONOMIZER/MOTORIZED DAMPER RAIN HOOD (DJN/E/C300 only)** - Contains all hood panels and the hardware for assembling.
- **ANTI-RECYCLE TIMER** - Assures 5-minute off time between compressor cycles.
- **LOW AMBIENT KIT** - Provides unit cooling operation down to 0°F.
- **COIL GUARD KIT** - Guard for cooling coil.

OTHER FACTORY INSTALLED OPTIONS

- **POWER EXHAUST OPTION** - To work in conjunction with economizers.
- **STAINLESS STEEL HEAT EXCHANGER**

- **TECHNICOAT PHENOLIC COATED CONDENSER AND EVAPORATOR COIL**
- **ELECTRONIC SINGLE ENTHALPY ECONOMIZER**
- **DIRTY FILTER SWITCH**
- **PHASE MONITOR**
- **COIL GUARD**
- **POWERED GFI CONVENIENCE OUTLET**
- **NON-POWERED GFI CONVENIENCE OUTLET**
- **BAS CONTROLS** (CPC, JOHNSON, HONEYWELL, NOVAR)
- **BAS READY ECONOMIZER** (BELIMO ACTUATOR WITHOUT A CONTROLLER)
- **HINGED FILTER DOOR ACCESS AND TOOLESS ACCESS PANELS**
- **HIGH SPEED DRIVE**
- **2" PLEATED FILTERS**
- **4" THROW AWAY FILTERS**
- **DISCONNECT SWITCH**
- **SUPPLY AIR SMOKE DETECTOR**
- **RETURN AIR SMOKE DETECTOR**

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